CLASSE

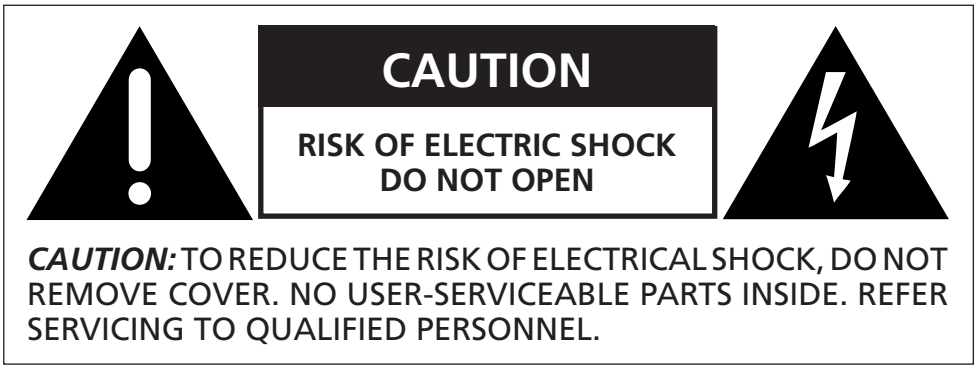
Owner's Manual
CP-500
Preamplifier

ENGLISH

使用说明书
CP-500
前置放大器

中文

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.

Classe products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). The crossed wheelie bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.

NOTICE

All of us at Classé take extreme care to ensure that your purchase will remain a prized investment. We are proud to inform you that all Classé components have been officially approved for the European Community (CE) mark.

This means that your Classé product was subjected to the most rigorous manufacturing and safety tests in the world. The CE mark certifies that your purchase meets or exceeds all European Community requirements for unit-to-unit consistency and consumer safety.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and the receiver;
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate the equipment.

The information contained in the manual is subject to change without notice. The most current version of this manual will be posted on our web site at http://www.classeaudio.com.

Important Safety Instructions

Caution:
Please read and observe all warnings and instructions in this owner's manual and all those marked on the unit. Retain this owner's manual for future reference.

1. **Do not attempt to service this product yourself.** Do not open the cover for any reason. There are no user-serviceable parts inside. An open unit, particularly if it is still connected to an AC source, presents a potentially lethal shock hazard. Refer all questions to authorized service personnel only.
2. **To prevent fire or shock hazard, do not expose the unit to water or moisture.** If a liquid does enter your component, immediately disconnect it from the AC mains and take it to your Classé dealer for a thorough check-up.
3. **Do not place your component near any heat-producing device** such as a radiator, stove, etc., Keep it away from direct sunlight.
4. **Connect your component only to an AC source of the proper voltage.** The shipping container and the rear panel serial number tag will indicate the proper voltage. Use of any other voltage may damage the unit and void the warranty.
5. **AC cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.** Do not stress the AC cord by stretching it to reach a plug. If damage does occur to the AC cord, take it to your Classé dealer for a thorough check-up and proper repair or replacement.
6. **If your component will be out of use for an extended period of time** (vacation, etc.), you may wish to unplug the power cord from the AC source to prevent any chance of problems from a voltage surge or lightning strike.
7. **NEVER** wet the inside of this product with any liquid.
8. **NEVER** pour or spill liquids directly onto this unit.
9. **NEVER** block air flow through ventilation slots or heatsinks.
10. **NEVER** bypass any fuse.
11. **NEVER** replace any fuse with a value or type other than that specified.
12. **NEVER** attempt to repair this product. If a problem occurs, contact your Classé dealer.
13. **NEVER** expose this product to extremely high or low temperatures.
14. **NEVER** operate this product in an explosive atmosphere.
15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

Please record the serial number of your new Classé component here for future reference.

Serial #: _____

ENGLISH

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Welcome to the Classé family

Congratulations on your purchase of a Classé product. It is the result of many years of continuous refinement, and we are sure that you will enjoy it for many years to come.

We value our relationship with our customers. Please allow us to stay in touch with you by returning your warranty card now, before you pack up the shipping carton of your new product and forget all about it. Doing so will enable us to let you know about any possible future upgrades or updates that might become available for your Classé component.

Sending in your warranty card also registers your product with us so that warranty service can be obtained easily and quickly, even if you have mislaid your original sales slip.

Please, take a few minutes to fill out the warranty registration card, and drop it in the mail.

You will find the warranty registration card at the end of the separate warranty policy booklet, enclosed.

a word about installation

Every effort has been made to make the Classé CP-500 simple and straightforward to install and use.

Still, we have no way to evaluate many other variables such as the size and shape of your room, its acoustics, and the associated equipment you have chosen to use with your preamplifier. All of these factors influence the ultimate performance of your system.

For this reason, we strongly encourage you to have your system installed and calibrated by your dealer, whose experience, training, and specialized equipment can make a profound difference in the final performance of the system.

Unpacking and Placement

unpacking your preamplifier

Carefully unpack your preamplifier according to the supplied instructions, and remove all accessories from the carton.

Important!

Keep all packing materials for future transport of your Classé product. Shipping your new component in anything other than its purpose-designed packing material may result in damage that is not covered by the warranty.

placement

As with any preamplifier, it is best to place the CP-500 centrally within your system, since it is the hub to which all other components are connected. It should also be located at a convenient height for both visibility and use, since you generally interact with your preamplifier more than any other component (changing inputs, adjusting volume, etc.).

Note that adequate clearance for the AC cord and connecting cables must be left behind the CP-500. We suggest leaving eight inches (20 cm) of free space behind your preamplifier to allow all cables sufficient room to bend without crimping or undue strain.

Classé recommends that the unit not be placed directly on the top surface of a power amplifier (or any other heat source).

ventilation

Your Classé preamplifier generates a certain amount of heat in the course of normal operation. Be sure to allow three inches of clearance above it and three inches to each side to allow heat dissipation through air circulation. Avoid placement on soft surfaces that would restrict airflow (such as plush carpeting).

custom installations

Drawings are included in this manual to facilitate special installations and custom cabinetry (see the section *Dimensions*). An optional, purpose-designed rack mount kit is available for this product. Contact your Classé dealer for more information.

serial number

The serial number for your preamplifier is found on the rear of the unit. Please note and record this number on the page entitled *Important Safety Instructions* for your future reference.

register your purchase!

Having found the serial number, now would be a good time to fill out the registration card. Please register your purchase so we can advise you of updates and other items of interest.

It will take only a minute or so. Please complete the card now, before you forget.

operating voltage

The CP-500 preamplifier is set at the factory for 100V, 120V, 230V, or 240V AC mains operation, as appropriate for the country in which it is to be sold *(230V only in European Union countries, in compliance with CE regulations)*. The voltage setting may not be changed by the user.

Make sure that the label on the rear panel of your preamplifier indicates the correct AC operating voltage for your location. Attempting to operate your preamplifier at an incorrect voltage may damage the unit.

Warning:

The voltage setting of your power amplifier may not be changed by the user. There are no user-serviceable parts within the unit. Please refer any problems to an authorized Classé service center.

If the AC mains voltage indicated on your preamplifier is incorrect, please contact your local, authorized Classé dealer or distributor.

The CP-500 can easily be powered by a normal 15-ampere AC mains line. If other devices are also powered from the same AC line, their additional power consumption should be taken into account.

The CP-500 includes protection circuitry that will prevent the preamplifier from operating at dangerously high or low voltages.

- **At startup:** the AC mains voltage must be within a range of approximately -15% to +10% of its nominal value at startup, or the preamplifier will not turn on. For example, a 120V unit requires the AC mains to be between approximately 95Vfi135V in order to turn on.
- **Over-voltage during operation:** if the AC mains voltage surges by roughly 10% or more during operation, the preamplifier will enter protection mode and shut down. The **Standby LED** will flash to indicate the protection mode has been engaged.
- **Under-voltage during operation:** if the AC mains voltage sags by 15% or more, the preamplifier will continue to play (since this does not present a particular danger to the amplifier), but note that it may not be able to achieve its usual standard of performance under these compromised conditions. The **Standby LED** will flash to indicate the condition.

warm up/break-in period

Your new Classé power preamplifier will deliver outstanding performance immediately. However, you should expect to hear it improve somewhat as it reaches its normal operating temperatures and its various components "break-in." It has been our experience that the greatest changes occur within the first 300 hours, as the preamplifier reaches thermal equilibrium and the capacitors fully form. After this initial break-in period, the performance of your new product should remain quite consistent for years to come.

The only exception to this rule is if the unit is unplugged for an extended period of time, allowing it to cool down. Depending on the degree of cooling involved, you should expect a brief warm-up period before the preamplifier's sound quality is at its best. Unless your preamplifier was allowed to become quite chilled, subsequent thermal re-stabilization should not take long. Fortunately, you should never have to repeat the initial 300 hour break-in period.

please read this manual…

Please take a few minutes to review this manual, and to familiarize yourself with your new preamplifier. We understand that you are anxious to plug everything in and get started. However, reading this manual and following the advice it gives will ensure that you get all the benefits you deserve from having purchased such a fine piece of equipment .

Special Design Features

flexible graphical user interface

The LCD touchscreen on the front panel of your new component supports an extremely flexible and versatile graphical user interface (GUI) while maintaining a clean, uncluttered appearance. The CP-500 provides a range of controls that might otherwise require dozens of buttons and knobs on the front panel. Despite this power and flexibility, it remains simple to operate in day-to-day use.

In fact, in some ways it is even simpler to operate than a more conventional design might be. For example, if you are not using one or more of the inputs on your CP-500, you can delete the unnecessary buttons from the operational menu. Doing so prevents anyone from trying to select a non-existent source component, with the resulting confusion stemming from the lack of any sound. *(Of course, you can easily restore the button if you subsequently add another source component and need that input.)*

customizable volume control

The volume control on your new Classé preamplifier is controlled by sophisticated software that allows you to fine-tune its response to suit your preferences.

Ideally, a volume control would allow you to reach the volume you desire quickly, and would also provide extremely fine control once you are close to the "perfect" volume. Of course, these characteristics are in conflict with each other: one requires the volume to change by quite a lot for a given amount of turning of the knob, while the other requires small, incremental changes for the same turn of the knob.

The volume control system on your CP-500 solves this problem by responding differently based on the specific circumstances (e.g. how quickly you are turning the knob and where in the volume range you are). After extensive testing, we feel we have created factory default settings that most people will find intuitive and a real pleasure to use. However, if you feel you would like to fine-tune its performance further in order to suit your particular preference, you may easily do so.

highly refined circuit design

All Classé analog amplification stages are based on circuits that have been extensively optimized over many years of continuous development.

By starting with excellent circuit designs and working with them over the years, we are able to discover the many small refinements that add up to superlative performance, in a variety of applications. Altering a voltage here, or using a slightly different part there, may make all the difference between solid and absolutely outstanding performance.

This level of refinement only comes with a great deal of experience, and is not available to those who flit from one trendy notion to the next. It accounts in no small measure for both the consistency of sonic performance among Classé products (as they are all based on similar analog gain stages), and for the consistently excellent reviews these products receive from owners and reviewers alike.

extensive listening tests

Excellent measured performance is to be expected in world-class products, and Classé products deliver that performance. However, experience has shown that technical excellence alone is insufficient to guarantee subjectively musical results.

For this reason, all Classé products are laboriously fine-tuned during the development process by carefully controlled listening tests. Our ears are still some of the finest laboratory test instruments available, and nicely complement more traditional engineering test equipment. In the course of optimizing the circuitry for a product, hundreds of decisions are made based on the subjective impression given by substituting one high quality part for another.

As an example, we may listen to half a dozen 0.1% tolerance film resistor components of the same value, from several different companies. Standard tests may show them all to provide identical results in terms of noise, distortion, and so forth. Yet, almost invariably, one selection yields some small improvement in the subjective reaction to the performance of the product under development. Less often, even a single such change can result in a surprisingly large improvement.

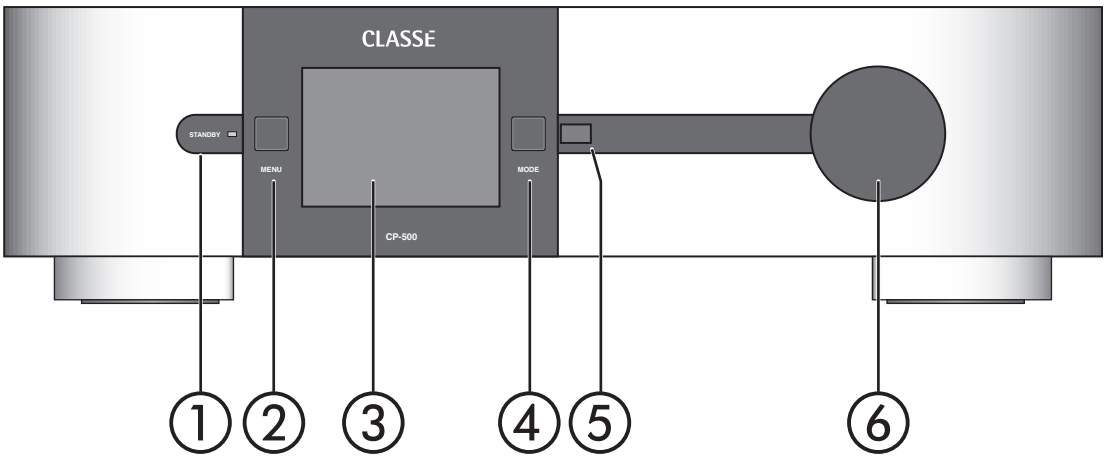
Multiply those various improvements by the dozens or even hundreds of such decisions that must be made before the product can be finalized for production, and you have a remarkable improvement, indeed fi all based on careful listening tests, which we view as a necessary complement to the solid engineering you might rightly expect from Classé.

extraordinary longevity

Another benefit of having worked with highly refined circuit designs so extensively over many years is that we have vast experience in what works well over the long term.

By using only the highest quality parts to begin with, and then using them in an informed way as a result of both accelerated aging experiments and actual long-term experience, we are able to design and manufacture products which we are confident will stand the test of time.

We are confident that your new Classé preamplifier will give you many years of trouble-free reliability and musical enjoyment, just as previous Classé products have given their owners.



Front Panel

1 Standby button & LED indicator

The front panel **Standby** button will toggle the preamplifier between *operate*, its fully operational state, and a *standby* mode that leaves the preamplifier off, yet ready to respond to system commands via any of the supported control options (e.g. IR input, DC trigger, CAN Bus, or RS-232).

The current state of the preamplifier is indicated by the **LED** indicator in the center of the standby button. When the unit is powered and switched on, the state of this LED indicates the following:

- on = *standby*
- flashing *(on power-up)* = *initialization*
- off = *operate*
- on *(dim)* = *display timeout*
- flashing *(after power-up)* = *AC mains voltage out of range*

If you are planning not to use the preamplifier for an extended period of time, e.g. vacation or other travel, we suggest you disconnect it from the AC mains. Please be certain that the preamplifier is turned off prior to disconnecting it from the AC mains.

Also, it is a good practice to physically disconnect any and all valuable electronics from the AC mains during electrical storms, as a lightning strike anywhere near your home can put a tremendous surge on the AC mains that can damage any piece of electronic equipment, no matter how well designed and protected. The best protection in the case of severe electrical storms is simply to remove the electronics from any connection with the power grid.

2 Menu button

Pressing the front panel **Menu** button will call up the *main menu system*, replacing the normal operational menu and status display in the LCD touchscreen.

3 LCD touchscreen

Much of your interaction with the CP-500 will be via the **LCD touchscreen** (and the CP-500's supplied remote control). It will usually display the various **input selection** buttons you would use in day-to-day operation, along with access to the tape button.

By pressing the **Menu** button, you can also call up the *menu system* of the CP-500, which gives you control over many of the operational details of the preamplifier, including *system setup* options, various *display* options (including the *language* in which the menu system itself displays), and several custom-installation capabilities that allow superior integration of the CP-500 into complex systems.

For more information, see the section *The Menu System* later in this manual.

4 Mute button

The front panel **Mute** button reduces the volume of the preamplifier to zero at the touch of a button. Pressing the button a second time restores the volume to its previous setting.

However, if you increase the volume manually (using either the **volume knob** or the **remote control**) while the **Mute** button is engaged, the mute control will disengage and the volume will be set to zero. This approach is a safety measure, to avoid situations in which the volume might be adjusted up while muted, only to then have the system un-muted to an unexpectedly high volume.

5 IR window

The **infrared** (IR) **receiver** and **transmitter** are located behind this window. Ordinarily, your Classé CP-500 must be able to "see" the remote control from this window in order to respond to remote control commands.

If your preamplifier will be located behind closed doors, or for any other reason will not be able to "see" the remote control during normal operation, you may use the rear panel **IR input** and **output** mini-jacks and an *IR repeater system* to solve the problem. For more information about using an infrared repeater system to route signals to and from the CP-500, refer to the section *Rear Panel* later in this manual, or contact your local Classé dealer.

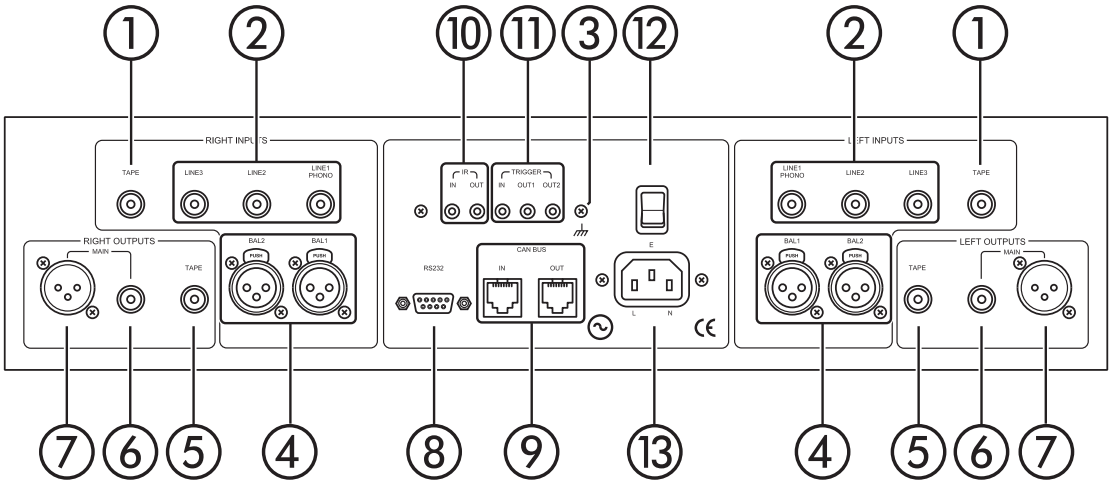
In addition to receiving IR commands, the CP-500 can also transmit IR commands so they may be learned by third-party learning remote controls. The CP-500 includes a comprehensive list of discrete IR commands to facilitate the creation of reliable macros. Specifically, there are discrete codes for all commands that normally operate as toggle functions (e.g. separate *operate* and *standby* commands in addition to the normal command that toggles between the two states).

6 Volume Knob

The large **knob** on the right side of the front panel of the CP-500 is used to control the volume of the system.

The volume is raised or lowered in precise 0.5dB increments throughout the range of the control most likely to be used while listening to music.

At extremely low volumes, the step size is increased somewhat to make it easier to move quickly between extremely low and normal listening levels.



Rear Panel

1 Tape Input

Connect the analog outputs of any recording device (analog tape recorder, digital tape recorder, CD recorder, etc.) you may have to these single-ended **RCA** connectors. You may select to hear the output of your recording device by touching the **tape** button on the main operational screen of the CP-500.

2 Single-ended (RCA) inputs

These RCA jacks accept right-channel and left-channel (single-ended) inputs from line-level source equipment such as tuners, CD players, and tape decks. Any of these inputs may be selected by touching the corresponding button on the main operational screen of the front panel touchscreen.

To achieve the best possible results, we suggest that you use only high-quality shielded interconnect cables. Please consult with your local Classé dealer for advice on the best cables for use in your system.

optional phono preamp

If you have a turntable you would like to use with the system, an optional phono preamplifier module is available from your Classé dealer. Once installed in your preamplifier, the **Line 1** input connectors become your **phono** inputs, and the **phono gain** control in the menu system becomes active, allowing you to select either *low gain* for all moving-magnet (MM) and high-output moving-coil (MC) cartridges, or *high gain* for standard output MC cartridges. (See the section *The Menu System* for more information.)

3 Ground terminal

The ground terminal on your integrated amplifier is most often used for the ground wire of a turntable, assuming you have the optional phono module installed (see your authorized Classé dealer for more information on this option if you are interested). Connecting the ground wire from your turntable's tonearm to this screw terminal usually minimizes any hum or buzzing to which the turntable might otherwise be susceptible. Your authorized Classé dealer can assist you in handling this problem if it should arise.

4 Balanced (XLR) inputs

These **XLR** jacks accept right-channel and left-channel balanced signals from source equipment with balanced outputs. Either of these inputs may be selected by touching the corresponding button on the main operational screen of the LCD touchscreen.

The pin assignments of the XLR-type female input connectors are:

Pin 1: Signal ground
Pin 2: Signal + (non-inverting)
Pin 3: Signal – (inverting)
Connector ground lug: chassis ground

Refer to the operating manuals of your balanced-output line-level sources to verify that the pin assignments of their output connectors correspond to the CP-500. If not, wire the cables so that the appropriate output pin connects to the equivalent input pin.

To achieve the best possible results, we suggest that you use only high-quality interconnect cables. Please consult with your local Classé dealer for advice on the best cables for use in your system.

5 Tape output

Connect these **RCA** jacks to the right-channel and left-channel recording inputs of your recorder.

These single-ended RCA outputs are unaffected by the volume control on the front panel, or by whether you choose to monitor the source or the recorder *(by having the "tape" button on the front panel's touchscreen deselected or selected, respectively)*. The record outputs will be disconnected when the preamplifier is placed into *standby*, however.

6 Single-ended (RCA) main outputs

Single-ended cables using RCA connectors are the most common form of analog connection used in consumer electronics. When implemented carefully and used with high quality interconnect cables, this standard can provide excellent performance.

Classé has gone to extraordinary effort to ensure that the single-ended (RCA) outputs of your preamplifier are as good as possible. However, this connection standard cannot offer the immunity from interference that balanced interconnection doesfihence our recommendation to use the balanced outputs whenever possible.

If you are not using balanced analog interconnection, then connect these single-ended outputs to your preamplifier/processor using high-quality shielded RCA-terminated cables. Your Classé dealer can advise you on the selection of cables suitable for your system.

7 Balanced (XLR) main outputs

These XLR outputs provide a high quality, balanced stereo analog signal to your power amplifier. Connect them to corresponding balanced inputs on your power amplifier, using shielded high-quality balanced interconnects. Your Classé dealer can provide assistance in selecting appropriate balanced cables for your system.

Balanced audio interconnections were originally developed in the professional audio world for preserving the delicate nuances of extremely small microphone-level signals. For many years now, they have also been used by performance-oriented consumer companies like Classé to preserve every nuance of the finest audio performances in your collection.

Technically, balanced audio interconnections provide two distinct benefits: they double the signal's strength as it travels from one component to the next, increasing the potential signal-to-noise ratio by 6 dB; they also do an excellent job of rejecting noise and interference that might otherwise be picked up between the components, due to either EMI (electromagnetic interference) or RFI (radio frequency interference). In the world of wireless telecommunications, there is more potential interference around than ever beforeflit makes sense to keep it out of music and movie soundtracks.

For this reason, we strongly recommend using balanced analog interconnects between your Classé components wherever possible, especially if you plan to use long interconnect cables between your preamplifier and the power amplifier(s) in order to minimize the length of the speaker wires.

The pin assignments of these XLR output connectors are:

Pin 1: Signal ground
Pin 2: Signal + (non-inverting)
Pin 3: Signal – (inverting)
Connector ground lug: chassis ground

These pin assignments are consistent with the standard adopted by the Audio Engineering Society (AES14-1992).

If you are using your Classé preamplifier with a Classé power amplifier, you're all set fi just take standard balanced interconnect cables and plug them in.

If you are using another brand of power amplifier, please refer to the operating manual of your amplifier to verify that the pin assignments of its input connectors correspond to those of the CP-500. If not, have your dealer wire the cables so that the appropriate output pin connects to the equivalent input pin.

8 RS-232 Control Port

This **DB-9** connector has two purposes:

- downloading new operating software into your preamplifier (should new features ever be added, for example)
- external control of your preamplifier by control systems such as i-Command™, AMX® and Crestron™

For more information, please contact your dealer and ask about home automation systems.

9 Classé CAN Bus Control Ports

These **RJ-45** connectors are reserved for future control and communication applications using Classé Audio's implementation of the Controller Area Network (CAN) Bus specification.

10 IR Input and Output

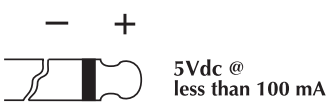
Your Classé preamplifier includes two 1/8th-inch **mini mono-jacks** in order to support the infrared (IR) remote controls that are ubiquitous today. Infrared commands exist (for example) for *toggling* the preamplifier between *operate* and *standby*, in addition to discrete command codes for either *operate* or *standby*. These codes may be used in "macros" for sophisticated remote control systems, facilitating the control of the preamplifier in the larger context of a complete system.

The list of commands available is quite extensive, enabling even complex *macros* (chains of commands strung together) to operate flawlessly. If this capability is of interest to you, we strongly recommend discussing it with your authorized Classé dealer.

Note that *IR Input* and *Output* is a bit of a misnomer: the input and output of these plugs is *electrical* in nature, not infrared. They are used with standard IR receivers, distribution amplifiers, and emitters (available from your dealer) to translate the remote's IR signal to an electrical signal and *vice versa*. The big advantages here include being able to easily route the signals anywhere they might need to go and the reliability of a solid electrical connection.

Since an IR distribution system such as your dealer may design for you usually must control many products, your preamplifier includes both an **IR input** (for the control of this product) and an **IR output** (so as to pass along the same signal to the next product). This allows you to "daisy chain" your control wires from one product to the next.

The preamplifier is designed to respond to IR commands of 5 Volts DC, with the tip of the mini-plug defined to be positive relative to the shank of the plug.



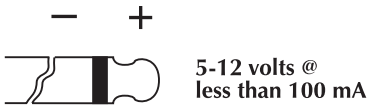
11 DC Trigger Input and Output

Many audio/video components can supply a DC control voltage to associated equipment in order to induce desired behavior. Your Classé preamplifier can take advantage of these capabilities in order to be switched between *operate* and *standby* automatically, usually in concert with the A/V preamp itself.

The 1/8th-inch mini mono-jack **Trigger In** provides for remote-controlled turn-on (that is, toggling between *operate* and *standby*) of the preamplifier.

Two 1/8th-inch mini mono-jacks provide individually controllable DC trigger outputs which can be used for any of a number of purposes, as described in *The Menu System*. For example, your dealer can program **Trigger Out1** to toggle your Classé power amplifier between operate and standby with your CP-500.

The remote trigger input will respond to the presence of 5fi12VDC, with tip polarity as shown below:



Similarly, the trigger outputs will create a 12VDC signal that can source up to 100mA of current.

12 AC Mains Power Switch

The main **power switch** for the CP-500 is located near the middle of the rear panel, just above receptacle for the power cord.

Switching the unit on puts it in *standby* mode. The preamplifier should be in *standby* before being switched off.

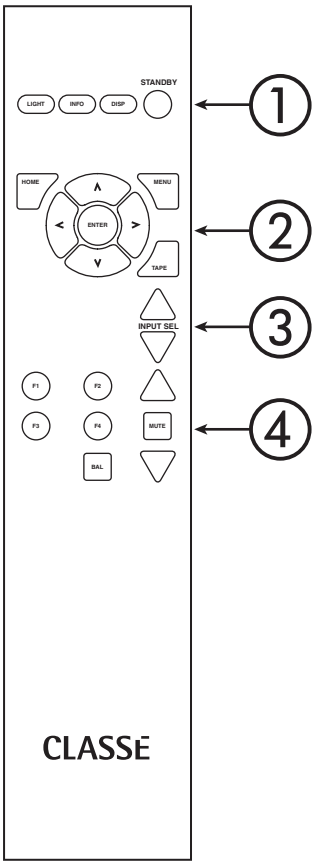
Danger!

Potentially dangerous voltages and current capabilities exist within your preamplifier, even when disconnected from AC mains. Do not attempt to open any portion of the preamplifier's cabinet. There are no user-serviceable parts inside your preamplifier. All service of this product must be referred to a qualified authorized Classé dealer or distributor.

13 AC Mains Input

An IEC standard power cord (supplied) is used with the CP-500. Plug the cord into the **IEC receptacle** provided, and the other end into a suitable wall outlet.

The Remote Control



Your new preamplifier comes with a versatile **remote control** which can control both the CP-500 itself and several aspects of the rest of a Classé-based system. The buttons are arranged in logical groups according to their functions.

1 Basic Functions

This section along the top of the remote control groups four functions that control your basic interactions with the CP-500.

- **Light** switches the backlighting of the remote control on, for better visibility under low-light conditions. After a few moments of inactivity, the backlight switches off automatically.
- **Info** takes you directly to the status screen in the LCD menu system, displaying several items of information about the CP-500 and its current operational status.
- **Disp** (for *Display*) cycles through the three brightness settings of the screen display.
- **Standby** toggles the CP-500 between standby and operate.

2 Navigation Keys

The central section of the remote control contains the navigation keys. This array of buttons is similar to what you may have seen on remote controls for DVD players, and is used for navigation of the menu system of the CP-500.

- **Home** returns you to the normal input selection controls normally shown on the LCD screen on the front panel of the CP-500. This provides a quick way to get back to normal operation, regardless of how deep you might be in the menu system.
- **Menu** serves two functions: it calls up the menu system when you need it in order to adjust something to your preference; once within the menu system, pressing **Menu** returns you to the previous level of the menu system. If you press **Menu** when at the top level of the menu system, it will take you back out of the menu system to the normal display.
- **Up/Down/Left/Right** keys allow you to move within a particular menu screen, changing the highlighted item up/down/left/right as you like, from the comfort of your listening position.
- The **Enter** key allows you to select the highlighted item, having the same effect as if you had pressed the button on the LCD touchscreen.
- The **Tape** key is not a navigation key, per se, but allows you to easily toggle between listening to the selected source and listening to the output of your recording device. If you have a recording device (such as a three-head tape deck) which can play back a recording while it is being made, you will be able to compare the original signal to the recording while you are making it.

3 Input Selection

These **Up** and **Down** arrow keys will cycle through the active inputs on your CP-500.

If you have inputs you are not using, we suggest deactivating them in order to provide faster, easier access to the inputs you are actually using. (See the section *The Menu System* for information on how to do this.)

4 System Controls

The CP-500 remote control can also control user-defined functions as well as the **volume** and **mute** functions of a Classé system.

- **F1/F2/F3/F4** keys are available for controlling aspects of the CP-500 not covered by the other buttons on the remote control. You are able to choose what the CP-500 should do in response to receiving the infrared signal that a particular **Fkey** has been pressed. The list of possible functions is quite extensive, and is found in the menu system (see the the next section in this manual, entitled The Menu System).

Note:

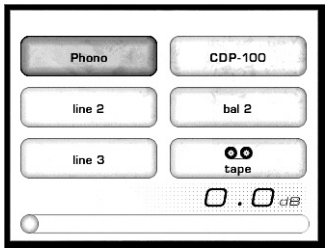
The Fkeys on all Classé remote controls issue the same infrared commands. This saves you from having to be sure you have picked up the proper remote, since all your Classé remotes will perform the same function for each Fkey.

- **Volume Up, Volume Down,** and **Mute** do what you would expect them to do.
- The **Bal** (balance) key takes you directly to the **balance** screen in the menu system; once there, you can use the navigation keys on the remote to select either the **left** or **right** buttons on the LCD touchscreen, depending on which way you wish to move the balance. Adjust the relative left-right balance of the system by using the **Enter** key on the remote to "press" the appropriate button on the display.

The Menu System

Your CP-500 includes a versatile **LCD touchscreen** which supports both an attractive information display and a flexible menu system. While its use is quite intuitive, it is also quite extensive. This section of the owner's manual outlines the many capabilities found in the menu system.

operational menu



The **operational menu** provides easy access to the most basic functions of the preamplifier: **input selection** and **tape monitor**. It also provides both a numeric and a graphic depiction of the current **volume** setting.

input selection

Pressing any of the input buttons on the touchscreen will switch to the appropriate input. You may have as many as three *line* inputs (meaning single-ended connections using RCA connectors) and two bal inputs (balanced connections using XLR connectors). If you do not have this many sources in your system, you can elect to deactivate the unused inputs. Doing so removes their associated buttons from the touchscreen, reducing confusion for occasional users of the system.

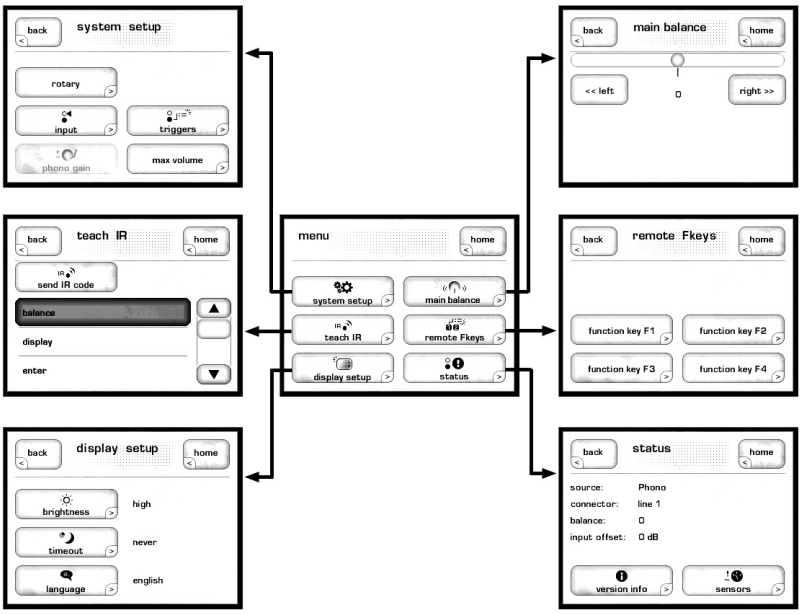
tape loop

In addition, the CP-500 has a dedicated **tape loop** for use with sources that can both record and play back, bringing the total number of sources you can connect to the CP-500 to six (four single-ended and two balanced).

When you touch the **tape** button to highlight it, you will notice that the previously selected input remains highlighted. Whenever any input is selected for listening, it is also selected for possible recording; a copy of its signal is sent to the recording device connected to the tape output. You may record it or not as you please.

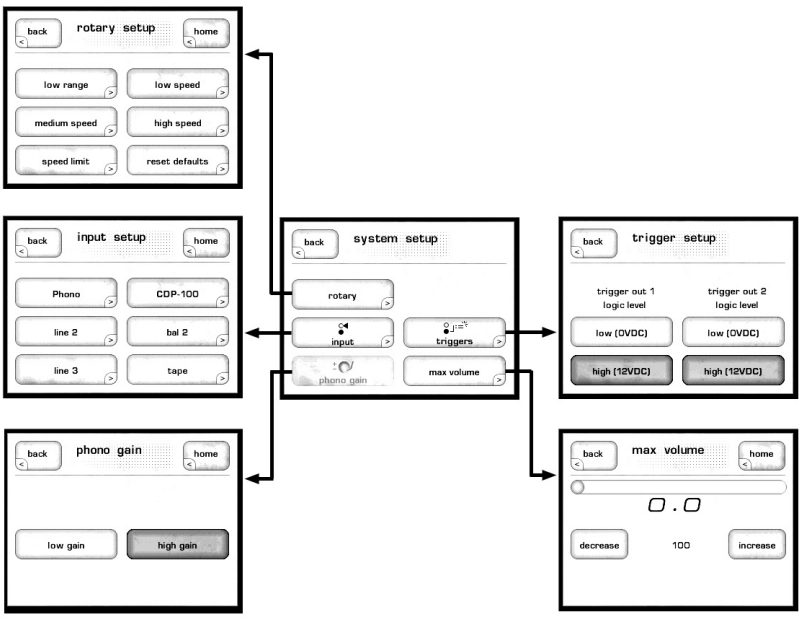
When you select the **tape** button, you are asking the CP-500 to continue with this recording feed (whether or not it is being used), while switching to monitor the output of the tape deck (or CD recorder, or whatever else you might have connected to the record loop). In this way, you can monitor the result of your recording while you are making it, in real time. *(This assumes that your recording device supports this capability, as do three-head tape decks.)*

main menu system



Pressing the front panel **Menu** button to the left of the **LCD touchscreen** brings up a comprehensive *main menu system*, the top two levels of which are shown above. This menu provides access to many installation-specific features that let you customize how the CP-500 works within the context of your particular system.

system setup



The first button on the control menu takes you to a series of submenus that collectively provide a great deal of control over your system setup. Here, you can:

- customize the behavior of your volume control
- tailor your inputs to your particular source components
- adjust the gain of the optional phono module
- program the behavior of the CP-500's DC triggers
- establish a maximum volume setting for your system

rotary

The rotary knob on the front panel does not directly control the volume. Instead, it controls circuitry that does so with greater fidelity and precision than traditional volume potentiometers could ever achieve.

Since the volume control circuitry is under software control, it is possible to customize its behavior under various conditions. To better understand why this is so valuable, consider two scenarios:

> *Person A places a high value on precision in achieving exactly the volume setting that makes the music most realistic; being able to easily change volume setting by a fraction of a decibel is critical to his enjoyment of the system.*
>
> *Person B just wants to jump easily from low volumes to a reasonable listening level, and is less concerned with the finer points of precision than with getting what he wants with a quick twist of the knob.*

You can see the problem in these scenarios: Person A wants extremely fine gradations on the volume control, which will require many rotations to go from extremely low setting to normal listening levels; Person B wants to get from one to the other with a "quick twist" of the knob, requiring coarse gradations in order to cover so much range in so little space. What happens when Persons A and B live in the same house? Or if Person C wants to have both, depending on their mood at the moment? *(In fact, most of us are probably like Person C.)*

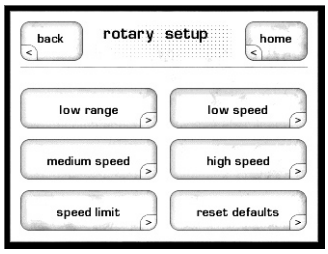
Classé solves this dilemma by altering the response of the volume control, based on several factors.

Since it is rare to listen at extremely low (barely audible) volumes, the *low range* adjustment of the volume control allows for faster response to knob input when the volume setting values are low. When activated, you will get from extremely low to middle volume control settings a bit faster than you would otherwise. This effect can be subtle, and may not even be desirable when the speakers used have extremely high sensitivity (since this results in using the lowest part of the range more than you would otherwise).

The most significant factor in the perceived responsiveness of the volume control is the *speed* at which the knob is being turned. We all naturally tend to move volume knobs more quickly when we need to make a bigger change, and we tend to slow down as we approach our desired volume. Thus, if the CP-500 sees the knob moving relatively quickly, it uses coarse steps to effectively accelerate the action of the circuitry. As the knob begins to turn more slowly, the CP-500 will actually increase the resolution of the steps, which slows down the action of the volume control and yields greater precision in choosing an appropriate setting.

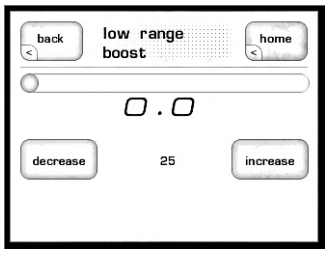
Of course, it is possible to bump into the knob by accident, which might result in its spinning very quickly indeed. Rather than increasing the volume uncontrollably under these conditions, the CP-500 actually slows everything down again as a safety measure against accidentally blowing your speakers. In fact, if you like you may establish a speed limit beyond which the knob will simply be ignored.

The *factory default* settings for these behaviors are generally found to be intuitive and a pleasure to use. However, if you prefer to alter these behaviors, you may do so in the rotary menu, shown below.



All of the **rotary setup** settings are interactive. You can set the value, and then adjust the volume to see whether the effect is what you desired.

- **low range:** determines the degree to which the responsiveness of the volume control is boosted at low volume control settings, in order to get through them more quickly. A setting of 0 disengages the effect, while a setting of 100 maximizes it.

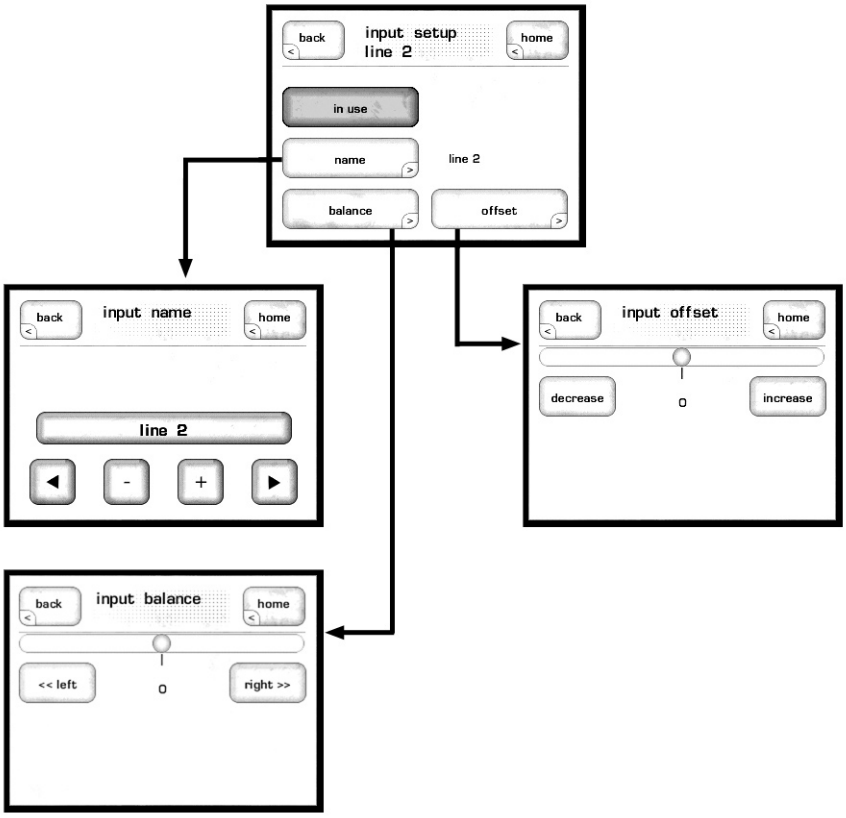


- **low speed:** determines the responsiveness of the control when the knob is being turned slowly. A setting of 0 will cause the volume to change as slowly as possible at low knob speeds; a setting of 100 will cause the volume to change as quickly as allowed at low knob speeds. *(The menu is the same as the one above except for the indication that it is for the "low speed" adjustment.)*
- **medium speed:** determines the responsiveness of the control when the knob is being turned at a moderate speed. A setting of 0 will cause the volume to change as slowly as possible at medium speeds; a setting of 100 will cause the volume to change as quickly as allowed at medium knob speeds. *(The menu is the same as the one above except for the indication that it is for the "medium speed" adjustment.)*
- **high speed:** determines the responsiveness of the control when the knob is being turned rapidly. A setting of 0 will cause the volume to change as slowly as possible at high knob speeds; a setting of 100 will cause the volume to change as quickly as allowed at high knob speeds. *(The menu is the same as the one above except for the indication that it is for the "high speed" adjustment.)*

- **speed limit:** establishes a maximum rotary speed, beyond which there will be no change in volume whatsoever; the knob's input will be ignored completely until it is first stopped, and then rotated at a slower speed.
- **reset defaults:** if after experimenting with various settings you decide you prefer it the way it operated as it came from the factory, pressing this button will restore the factory default settings. So feel free to experiment fi you can always return to the original settings.

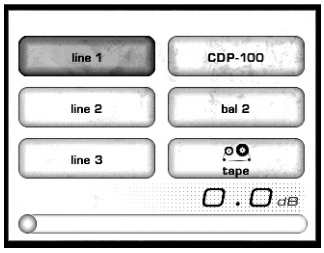
input

Each input on your preamplifier can be customized in several ways to enhance either the performance or the ease of use of the system. A quick look at the input menu and submenus gives you an overview of what is possible:



- **in use** determines whether the selected input is displayed on the main input selection screen, and whether it is included in the rotation of inputs cycled through from the remote control's input selection buttons.
- **name** provides a way to customize the names of the inputs as displayed on the main input selection screen. For example, you might want to name your **Bal 1** input "CDP-100" for the Classé CD player you might have connected to that input. To do so, use the four buttons along the bottom of the **input name** menu to change the default name of any given input to something more specific to your system.

- The ◄ button acts like the backspace key on a computer keyboard, moving the cursor to the left and eliminating any characters along the way.
- The ► button moves the cursor to the right, adding characters along the way. (Change each character to what you want as you go along, using the **+** and **— buttons.)**
- The **+** and **—** buttons change the current character through the available characters. They include all upper and lower case letters of the alphabet, the numbers 0-9, and a variety of punctuation. When done, your main display might look like this (note the change in what would otherwise be the **bal 1** input).



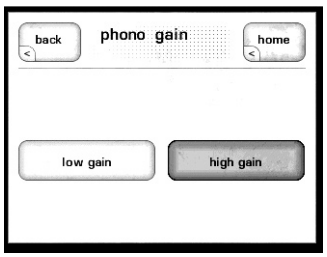
Warning!

When an input is renamed 'SSP', it becomes a unity gain input. When such an input is selected, the volume control of the CP-500 is disabled, all outputs are driven at line level and the volume indication is removed from the main menu.

This is useful in situations where the CP-500 is being used to pass through a signal coming from a component with its own volume control (e.g. Classé SSP-300 surround sound processor), or when one of its outputs is sent to a component with its own volume control (SSP-300). Care should be taken to adjust the volume control of the other component before selecting the SSP input, as the resulting volume level may be uncomfortably loud.

- **input balance** adjusts an input-specific balance adjustment to compensate for the possibility that a particular source might be slightly imbalanced. This is especially common with turntables, since even the finest handmade cartridges are subject to small channel imbalance problems.
- **input offset** provides a way to compensate for differences in output level between various source components. Doing so can eliminate the sometimes annoying and abrupt changes in volume encountered when switching between different source components.

phono gain



The **phono gain** menu is only active if the optional **phono module** is installed; otherwise it is grayed out. When it is installed, the CP-500 will automatically recognize it, rename the **line 1** input to **phono**, and activate the input on the main menu.

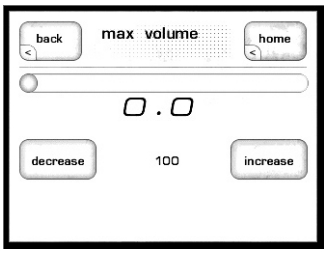
Setting the phono gain is simple enough: choose *low gain* for most moving magnet cartridges, and for high output moving coil cartridges; choose *high gain* for low output moving coil cartridges. Your Classé dealer can assist you in determining what type of cartridge you have, and which setting is most appropriate.

triggers

Each of the CP-500's **trigger outputs** may be programmed as to its "logic level," which is to say, whether its voltage is *low* (essentially 0V), or *high* (approximately 12V) when the trigger is activated. The ability to change the logic level of a trigger's "on" state can solve installation-specific problems that otherwise require external devices that add to both the cost and complexity of your system.

If this seems an obscure point, that's okay. It is a feature designed to solve problems you may not even have, but your installation professional appreciates being able to easily solve such problems when they occur.

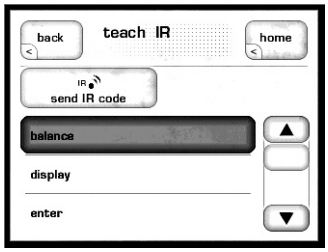
max volume



The **max volume** screen allows you to establish a maximum volume setting for your system. This scale runs from 0 to 100, with 100 indicating that you do not want any artificial limit placed on the maximum gain your preamplifier can provide.

This setting is interactive. You can set the value to something less than 100, and then adjust the volume to see whether it is appropriate.

teach IR

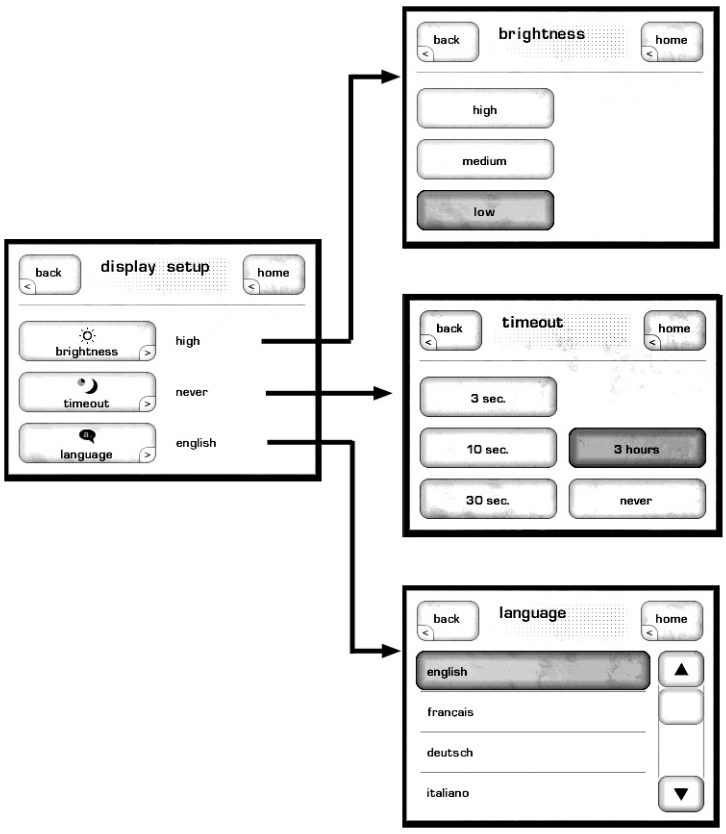


The CP-500 provides discrete infrared (IR) command codes for all its functions, a list that extends far beyond what is required by normal remote controls. However, many of these functions are critical if you plan to create a customized remote control with macros that take command of your entire system. Without these discrete codes, many of the macros you might want to create will simply not work reliably.

The **teach IR** screen provides a scrolling list of all the available IR codes in the CP-500. By scrolling to the command you need to learn into your macro-capable remote, and then pressing the **send IR code** button, the CP-500 will send the appropriate command code out its front panelfiwhere it can be learned by your third-party remote control.

For more information on such control systems, we recommend you speak with your authorized Classé dealer.

display setup



This button brings up the **display setup** menu. It allows you to configure the CP-500's LCD screen *brightness*, the display *timeout*, and the *language* used in the touchscreen and menu system.

brightness

The **brightness** setting of the CP-500 has three possible values: *low, medium,* and *high.* Select the appropriate setting based on the level of ambient light typically found in your listening room while using the system. A *high* brightness setting usually works best in brightly-lit rooms; you may find that a lower setting is less visually intrusive under more subdued lighting conditions.

timeout

If you prefer listening to music in a dimly-lit or darkened room, you may find even the *low* brightness setting of the display somewhat distracting. If so, you can vary the **timeout** of the backlighting so as to turn it off entirely after a period of inactivity you select.

In this context, activity refers to any use of the user interface. This includes hard buttons, the LCD touchscreen, and the remote control.

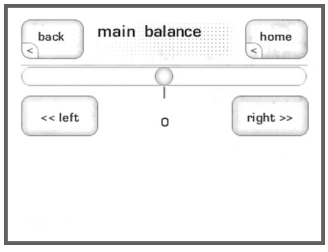
For example, if you reduce the timeout to its minimum setting, the backlighting will illuminate the display as soon as you interact with any of the CP-500 controls, and stay on for only three seconds fi just long enough for you to check on something. If you continue to use any of the controls (at least once every three seconds), the display will remain lit. It will then extinguish itself after three seconds of inactivity on your part.

If you prefer the display of the CP-500 to remain on whenever not in *standby,* choose the *never* timeout setting. The lamp in the LCD display was designed for harsh automotive environments and will give you many years of reliable operation. If you plan to leave the unit on continuously, however, we recommend that you keep the timeout delay set to less than one minute. (Note that setting the brightness to a lower setting does not increase the life of the lamp.)

language

The **language** menu offers you any of the different languages supported by the CP-500 GUI. Classé has provided our international distributors with a software tool that makes it possible for them to customize the translations to suit their local customs and terminology, in an effort to ensure that the CP-500's operation is as intuitive to use in every country as it is in our home country of Canada.

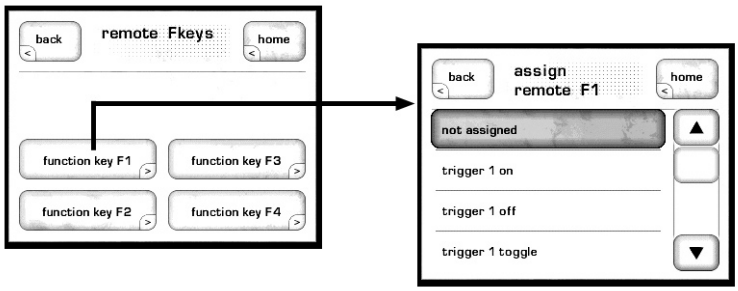
main balance



The **main balance** control gives you both a numeric and a graphical indication of the current balance setting for the CP-500.

Some recordings are not balanced particularly well between the left and right channels. If the image presented by a particular recording seems heavily weighted to the left (for example), you can restore a more natural perspective with the balance control. To shift the image to the right, touch the **right>>** button one or more times as needed to correct the perceived imbalance.

remote Fkeys



The remote control supplied with the CP-500 has four **function keys (Fkeys)** that allow you to have instant, easy access to specific system functions that might otherwise be buried in a menu somewhere.

For example, if you use the balance control frequently, you may want to consider programming one of the **Fkeys** to take you straight to that screen. Doing so will save you having to access the control menu, followed by pressing the **balance** button *(which might be hard to see from across the room)*.

The **remote Fkey** menu has four buttons, one each for the four **Fkeys** on your remote control. Pressing any of these buttons on the LCD touchscreen takes you to a subordinate, scrolling list of possible functions for that particular **Fkey**.

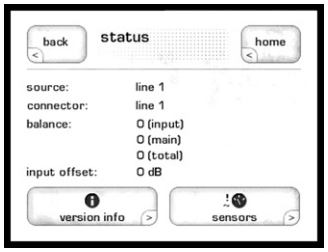
Selecting the one you want is as simple as scrolling through the list (by touching either the up or down arrows on the right), and then touching the specific function in the list that you want that **Fkey** to perform.

cautionary note on Fkey use

Note that all Classé remote controls provide these same four **Fkeys**, so that you need not worry about which remote you happen to pick up. Thus **F1** on the preamplifier's remote control sends the same infrared signal as **F1** on the CD player's remote control.

While this is intended to minimize confusion amongst different remotes (since this aspect of them will all perform identically), you should take care when assigning different functions on different components to the same **Fkey**. Doing so would result in two components doing two different things at once, in response to a single press of a button on the remote control. This can sometimes be useful. As an example, **F1** could set the preamplifier to the **CD** input, and also set the CD player to **Play**, both from the press of a single **Fkey**.

status



The **status** screen provides several items of information about the current operation status of the CP-500, as well as access to information on the software used in and the internal sensors of the CP-500.

version info

The **version info** button on the status screen takes you to the **version information** screen, which displays information on various pieces of software used by your CP-500. If you ever have occasion to call our technical support people to ask a question not covered in this manual, they may want to know precisely what version of software your unit is running. Having this information available will help enable them to give you the best possible service.

sensors

The **sensors** button on the status screen takes you to the **sensors** screen, which displays information about several internal sensors within the CP-500. It is unlikely you might ever need the sensor information, unless directed to do so by a customer service representative at Classé in order to help troubleshoot some unexpected problem.

Troubleshooting

In general, you should refer any service problems to your Classé dealer. Before contacting your dealer, check to see if the problem is listed here. If it is, try the suggested solutions. If none of these solves the problem, contact your Classé dealer.

1. Everything appears to be on, but there is no sound.

- Adjust the volume control to a moderate level (one that should be audible but is not excessive).
- Make sure the source component for which the input has been selected is switched on and is out of its *standby* mode.
- Make sure the proper input has been selected for the source being used.
- Check that the preamplifier is not in *mute* mode. This is indicated by the operational menu icon in the form of a speaker with a bar through it. Press **Mute** to disengage.
- Ensure that the power amplifier is powered up and out of *standby* mode.
- Check if the tape monitor is enabled. If it is engaged and the recorder is off, you will not hear the selected source. Disengage by pressing **Tape**, unless you wish to monitor the recording.
- If the problem occurs only with a particular input, check the interconnect cables between that source and the preamplifier.
- If the problem occurs with all inputs, check the cables between the preamplifier and the power amplifier. If no fault is found there, check the speaker wires for secure connections.

Important!

Check that the power amplifier is off before checking any connections between the preamplifier and power amplifier, or between the power amplifier and the speakers.

2. There is no sound and the Standby LED is not lit.

- Ensure the preamplifier is plugged into the AC mains and switched on, and that the AC mains are operating normally. The unit will automatically attempt to protect itself from improper AC mains voltages by not powering up. Make sure your power amplifier is off (if the amplifier is already connected to the preamp) before plugging your preamplifier into the AC mains and powering it up.

- If your preamplifier was plugged in properly, try the following: put it in standby, switch off the main power switch in the back, and unplug the unit for at least thirty seconds before trying to power it up again. *(Sometimes a brownout of short-term loss of power might require a restart.)*

Important!

Make sure to power down your power amplifier BEFORE doing the restart.

- If none of these solutions work, please consult your Classé dealer for assistance. Never attempt to replace an internal fuse. There are no user-serviceable parts inside your unit.

3. Only one speaker seems to be playing.

- Check the main balance control setting of the CP-500 by pressing the **Menu** button, followed by the **balance** button (or simply press **Bal** on the remote control).
- Does the problem occur with all inputs? If so, check the interconnect cables between the preamp and the power amp. If no fault is found there, check the speaker wires for secure connections.

Important!

Be certain that the power amplifier is off before checking any connections between the preamplifier and power amplifier, or between the speakers and the power amplifier.

- If the problem occurs only with a particular input, check the input balance control setting of that particular input:

  Menu → system setup → input → *input name* **→ balance**

  where *input* name is the particular input in question.

- If the input balance appears to be correct, check the interconnect cables between the corresponding source component and the CP-500.

4. The IR remote control seems not to function.

- Ensure that there are no obstacles between the IR remote and the IR sensor (located to the right of the Mute button).
- If the batteries are weak, replace them with fresh ones.

5. There is a hum coming out of the speakers.

- If you are running single-ended interconnects, make sure they are not running alongside any AC power cords.
- If you are running single-ended interconnects, make sure they are not too long. Long runs of single-ended interconnects have a natural tendency to pick up noise even if they are shielded.
- If any source components connected to your preamplifier has a cable TV hooked up to it, try disconnecting the cable television line from the source. If the hum goes away, you will need an isolation device between your cable and that particular source. Refer to your Classé dealer for one of these inexpensive devices.
- If you have the optional phono module in your preamplifier, make sure that the ground wire of the tonearm is secured properly to the ground lug on the back of your preamp.
- If the hum exists only on the phono input, make sure the turntable/tonearm assembly is not too close to other components. There should be at least 12 inches (30cm) clearance from the other components. The more clearance you provide, the better (as long as the tonearm cable is not stretching).
- Make sure the tonearm cable is not touching or running alongside an AC cable.
- Make sure you have the proper loading for your phono cartridge. If you are in doubt, consult your authorized Classé dealer.

6. There is a mechanical hum coming from the unit.

- This symptom suggests you have a lot of electrical noise on your AC mains line. Try connecting to another AC circuit (not merely a different plug, but a different circuit).
- Check to see if you have any halogen lighting or dimmers on the same circuit as the preamplifier, as they can be the cause of hum in power supply transformers.

7. There is a noticeable change in volume between one input and another, even though the volume was not adjusted.

- You may need to adjust the input offset setting to compensate for differences in output level between source components. Conversely, the input offset setting may have been adjusted inappropriately. Either way, you can correct the problem by going to the following location in the menu system:

  Menu → system setup → input → *input name* **→ offset**

  where *input name* is the input which needs to be adjusted.

- If the input that seems incorrect is the phono input, make sure you are using the proper gain setting for the type of cartridge you are using. If in doubt, consult with your authorized Classé dealer.

Care and Maintenance

cleaning the cabinet

To remove dust from the cabinet of your preamplifier, use a feather duster or a soft, lint-free cloth. To remove dirt and fingerprints, we recommend isopropyl alcohol and a soft cloth. Dampen the cloth with alcohol first and then lightly clean the surface of the preamplifier with the cloth. Do not use excessive amounts of alcohol that might drip off the cloth and into the preamplifier.

Caution!

At no time should liquid cleaners be applied directly to the surface of the preamplifier, as direct application of liquids may result in damage to electronic components within the unit.

cleaning the LCD touchscreen

To clean the LCD touchscreen, use a microfiber eyeglass wipe or soft, lint-free cloth, together with a cleaning solution designed for plastic eyeglasses or LCD computer monitors/televisions.

Important!

Spray the solution onto the cloth or tissue – never directly onto the touch screen.

installing the remote control batteries

The battery compartment is situated at the base of the remote control. Remove the two screws holding the base plate in place, taking care not to lose them. Insert the two AA batteries (supplied), ensuring that the polarity is the same as that indicated on the inner surface of the remote control.

Specifications

All specifications are accurate at the time of printing. Classé reserves the right to make improvements without notice.

■ **Frequency response**	DC – 200kHz ± 0.1dB
■ **Distortion** *(THD + noise)*	0.003%
■ **Maximum input voltage** *(single-ended)*	5Vrms
■ **Maximum input voltage** *(balanced)*	10Vrms
■ **Maximum output voltage** *(single-ended)*	10Vrms
■ **Maximum output voltage** *(balanced)*	20Vrms
■ **Gain range**	-100dB to +14dB
■ **Input Impedance**	100kΩ
■ **Output Impedance** *(main output)*	100Ω
■ **Signal-to-noise ratio** *(ref. 10Vrms input)*	100dB
■ **Channel separation**	better than 100dB
■ **Crosstalk** *(any input to any output)*	better than -120dB @ 1kHz
■ **Rated power consumption**	30W
■ **Idle power consumption**	29W
■ **Mains voltage**	determined by the needs of country for which the unit was manufactured; cannot be reset by dealer or user
■ **Overall dimensions**	Width: 17.5” (445mm) Depth: 16.5” (419mm) Height: 4.75” (121mm)
■ **Net weight**	26lbs (12kg)
■ **Shipping weight**	33lbs (15kg)

For more information, see your Classé dealer, or contact:

Classé Audio
5070 François Cusson
Lachine, Quebec
Canada H8T 1B3
Telephone +1 (514) 636-6384
FAX +1 (514) 636-1428

http://www.classeaudio.com
email: cservice@classeaudio.com

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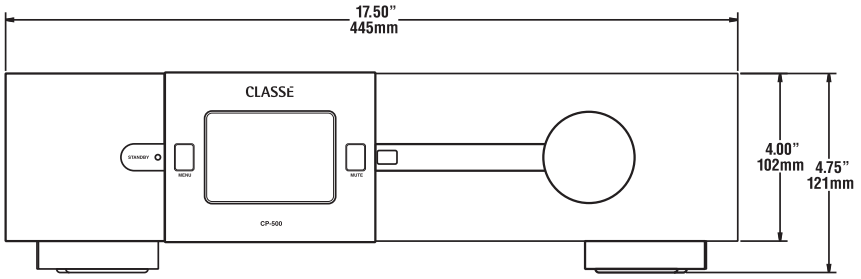
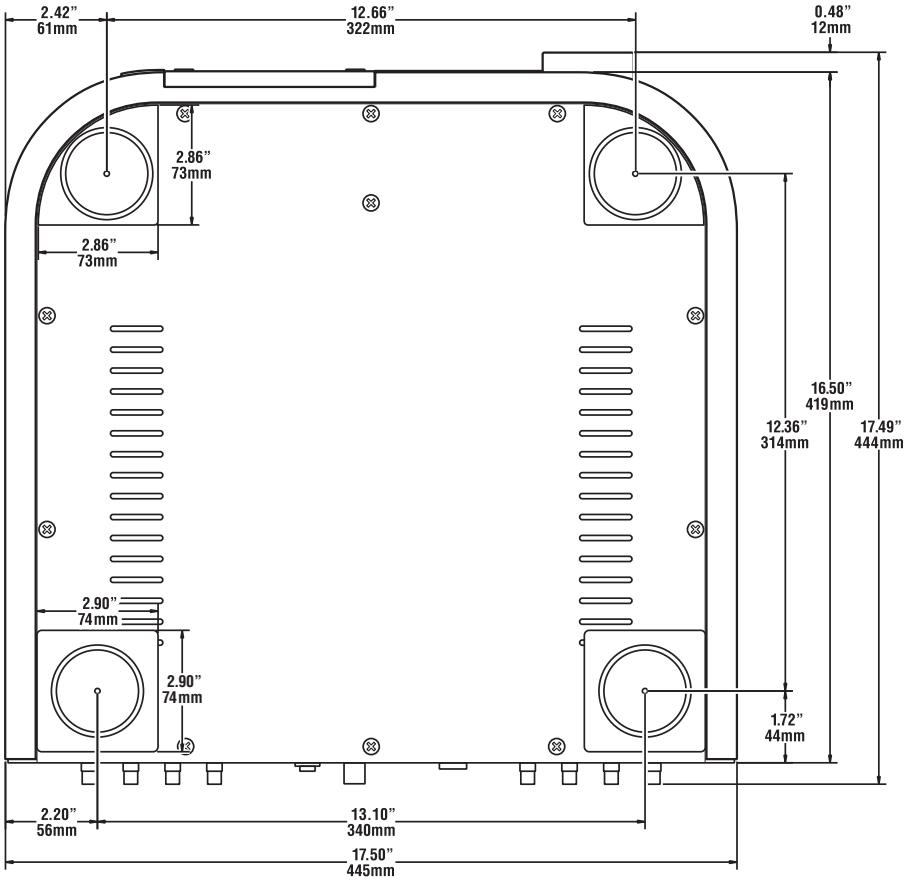
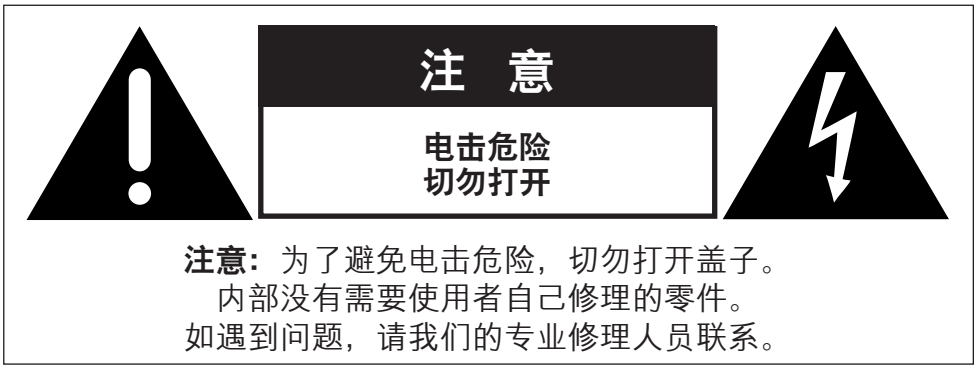
AMX® is a registered trademark of AMX Corporation of Richardson, TX. All rights reserved.
Crestron™ is a trademark of Crestron Electronics, Inc. of Rockleigh, NJ. All rights reserved.

Dimensions


17.50"
445mm
CLASSE
STANDBY
MENU
MUTE
CP-500
4.00"
102mm
4.75"
121mm


2.42"
61mm
12.66"
322mm
0.48"
12mm
2.86"
73mm
2.86"
73mm
16.50"
419mm
12.36"
314mm
17.49"
444mm
2.90"
74mm
2.90"
74mm
1.72"
44mm
2.20"
56mm
13.10"
340mm
17.50"
445mm

警告：为了避免火灾或者电击危险，请不要把该产品置于雨水或者潮湿的环境中。



等边三角形中带有箭头符号的电闪标记是用来提示用户，产品机壳中存在非绝缘“危险电压”，该电压的大小足以对人造成电击危险。

等边三角形中惊叹号标记是用来提示用户随机附带的参考数据中比较重要的操作和维护（修理）说明。

注有“CE”标志的产品表示该设备符合欧洲共同体制定的 EMC（电磁兼容性）和 LVD（低压指令）标准。

Classé 产品设计是遵照国际 Restriction of Hazardous Substances (RoHS) 在电器和电子设备处置 Waste Electrical and Electronic Equipment (WEEE)的方针。交义废物箱标志表明需要服从符合这些方针，产品必须被回收或适当地被处理。

注意事项

Classé 的所有员工已尽最大的努力确保你购买的产品物有所值。我们很自豪的通知你，所有 Classé 的零部件已经于 1996 年 7 月 18 日正式通过 CE 认证,并获得取得标志，CE 证书编号为：C401CLA1.MGS。

这意味着你的 Classé 产品经过了世界上最严格的加工和安全测试。CE 标志表明你的 Classé 产品符合或超过欧盟委员会零件对零件一致性和消费者安全的要求。

根据《FCC 规则：第 15 部分》，经过测试判定，本产品符合 B 级数码产品的限制条件。这些限制条件是为避免家里面安装的其它设备受到干扰而制定的。如果不根据说明进行安装和使用，本设备会产生，使用以及发出无线电频率，这就会对其它无线电通讯设备造成干扰。然而，我们也不能保证本产品的特殊安装不会对其它无线电产品造成干扰。在关闭和开启本产品时，如果未对收音机和电视机的信号接受造成干扰，我们建议用户可采用以下一种或几种方法来修正干扰：

- 再改方向或重新定位接收天线；
- 增加设备和接收器的距离；
- 将设备连接到另一条电路上的插座中，接收器不连接在此电路；
- 咨询经销商或有经验的无线电/电视技术人员。

注意：在没有获得厂商认可的情况下对本产品的改变和改良可能会使用户操作权限无效。

说明书中的内容可能会有改变，恕不通知。我们会把最新版本的说明书放在我们的网站上：http://www.classeaudio.com.

重要安全说明

注意:
请阅读和遵守说明书中的所有警告和说明，以及产品上的标志。保留该说明书以备将来参考使用。

1. **不要自行维修。**任何原因都不要自行打开外壳。产品内无用户可自己维修的部件。打开的设备，特别是连接在交流电源时，会产生致命的电击危险。所有问题只能咨询合格的维修人员。
2. **为了减少火灾和电击的危险，请勿将此产品暴露在水或潮湿的环境之中。**如果有液体进入设备，立即断开交流电源总线并将产品送到 Classé 经销商处进行彻底的检查。
3. **不要将产品放在靠近能产生热的设备旁，如电暖炉，火炉等。**不要让产品受到阳光的直射。
4. **只能将你的产品连接到合适电压的交流电源中。**货运箱和前面板上的序列号标签会标明合适的电压。使用其它电压可能会损坏设备，从而使保修单无效。
5. **将交流电源线扎好，不让其被踩到或被放置在其上面或对面的其它物品夹住。**如果交流电源线遭到损坏，将其带到 Classé 经销商进行彻底的检查，并进行适当的维修或更换。
6. **如果你的产品将在一段时间内不使用（假期等）**，请将其从电源中拔出，以防止任何产生电涌或雷电袭击的机会。
7. **不要**使用任何液体拭擦产品的内部。
8. **不要**直接将液体泼溅到产品上。
9. **不要**阻挡通风槽和散热器的空气流通。
10. **不要**给任何保险丝设旁路。
11. **不要**使用指定阻值和型号以外的保险丝更换。
12. **不要**自行维修本产品。如果有问题发生，请联系 Classé 经销商。
13. **不要**将本产品暴露于超高/低温环境下。
14. **不要**在爆炸性气体的环境下操作本产品。
15. 在有雷电时，**切记**将电感设备拔出。

请将本机的序列号记录在下面以备将来参考用。

序列号: _____

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欢迎来到 Classé 家庭

祝贺你购买了 Classé 的产品。本产品是我们公司多年不断改良的结果，我们相信本产品会于未来带给你多年的享受。

我们珍视和客户的关系。在你整理好新产品的包装箱和忘记箱内的东西之前，请你将保修卡填好送回给我们，以便我们能和你保持联系。这我们才能将本产品的任何更新和升级通知你。

只有你将保修卡填好送回给我们，我们才能对你所购买的产品进行注册。这样，即使你将销售发票弄丢了，我们也能为你提供容易和快捷的保修服务。

请花几分钟的时间填写好保修卡并将其邮寄给我们。

你会在包装箱内，单独的保修政策小册子后面找到保修卡。

关于安装

我们已经竭尽努力使 Classé CP-500 简单而直接地安装和使用。

但是，我们还是无法估计到其它可变因素，如你房间的大小，形状和声学效果以及你所选择的配合前置放大器使用的设备。所有这些因素都会对系统的最终效果产生影响。

出于这方面的原因，我们推荐你请经销商对你的系统进行安装和校准。他们的经验，培训知识和专业设备会让你的整个系统与众不同。

打开包装和放置

打开你的前置放大器包装

根据提供的说明，小心地将前置放大器的包装打开，并取出所有箱内的附件。

重要!

保留所有的包装材料以备将来 Classé 产品的运输使用。使用非原包装材料装运设备可能会导致设备的损坏，这种损坏不在保修的范围之内。

放置

和其它任何前置放大器一样，因为前置放大器是所有连接的元件的中心，所以应将你的 CP-500 放在整个系统的中心位置。由于你要更经常的使用前置放大器（改变输入，调节音量等），所以应将前置放大器放置在一个容易看见和方便使用的高度。

注：CP-500 后面必须具有有足够的间隙用来放置交流电源线和连接缆线。我们建议留出 8 英寸（20 厘米）的间隙以免电源线和连接缆线的弯曲不会发生卷曲或不适当的拉伸。

Classé 不推荐将本设备直接放置在电源放大器（或其它任何热源）的表面。

通风

正常操作时，你的 Classé 前置放大器会发出一定的热量。确保前置放大器的顶部和两边有3英寸的空隙以便有空气流通，散发热量。避免将前置放大器放置在会限制空气流通的软表面（如长毛绒地毯）。

定制安装

本说明书中包含有安装图纸，以便于进行特殊的安装和细木家具布置（见“尺寸”一节）。我们有一套自己购买的，专门设计来安装本产品的工具架。如果需要更多信息，请联系 Classé 经销商。

序列号

本机的序列号可在机身后查到。请将该序列号记录在“重要安全说明”一节的底部。

注册你的产品!

找到序列号之后，请立即填写注册卡。请对你购买的产品注册以便我们将来能将本产品的更新和其它利益条款通知你。

花一分钟左右的时间，请你在忘记之前填写注册卡!

操作电压

CP-500 的操作电压已在工厂设置（机体内）。分别为 100V，230V，或 240V 交流电源。不同的设置是为了适合产品销往的不同国家的电源。*（根据 CE 规格，230V 的设备只在欧盟国家使用）*。用户不能自行更改产品的操作电压。

确保在您的前置放大器后面板标签表明正确当地工作交流电压。若试图将您的前置放大器 在不正确电压操作可能会令它损坏。

警告!

用户不能自行更改产品的操作电压。产品内无用户可自己维修的部件。所有问题仅咨询授权的 Classé 售后服务中心。

如果你的产品上的交流电源电压不正确，请联系你当地的授权经销商或分销商。

正常的 15 安培交流电源就能很容易为 CP-500 供电。如果其它设备也是由同一条交流线路供电，需考虑这些设备额外的耗电量。

CP-500 具有保护电路，以便设备不会在危险的高压或低压环境下操作。

- **启动阶段：**在启动阶段，供电的交流电源电压应在低于正常电压约 15% 和高于正常电压 10% 的范围之内，否则设备就不能启动。例如，120V 的设备的交流电源电压应在 95V-135V 的范围之内，设备才能启动。
- **操作过程中的过电压保护：**在操作过程中，如果供电的交流电源电压超过正常值的 10% 或更多，设备将会进入保护模式并会关闭。**待机 LED** 将会闪动，表明设备进入保护模式。在 LCD 触感屏幕上会显示一条错误信息。
- **操作过程中的低压：**在操作过程中，如果供电的交流电源电压低于正常值的 15% 或以上，设备将会继续操作（因为低压不会对设备造成特殊的危险），但需注意的是，设备不能具有其正常的性能标准。**待机 LED** 将会闪动表明出现低压操作。

预热/试运转期

你的 Classé 前置放大器即将给你带来完美震撼。然而，让设备达到正常操作温度，并让所有的零部件先进行试运转后你应该发觉它改进一些。根据我们的经验，由于设备要达到热平衡以及所有的电容器定型，在首 300 小时的操作时间内，设备将会发生轻微的变化。在初始试运转期过后，你的新前置放大器的性能将会在未来的若干年内保持稳定。

此规则的唯一例外是：如果试运转期间设备从电源中拔出一段长时间，设备需长时间冷却。根据冷却的的程度，在前置放大器的音质达到最佳前，设备应有一个短的预热期。除非你的前置放大器的冷却温度很低，否则，后面的再次热稳定不应该花很长的时间。好的是，你不用重复这初始的 300 小时的试运转期了。

请阅读本说明书...

请花点时间阅读本说明书，熟悉新产品的性能。对你急于插上电源并使用的心情，我们表示理解。然而，阅读并遵从本说明书的建议将会保证你能获得本产品的所有好处。

特殊设计

灵活的图形用户界面

置于前面板上的 LCD 触感屏幕能提供最灵活和多用途的图形用户界面 (GUI)，同时也能保持清洁而整齐的外观。CP-500 提供一定范围的控制功能，如果采用其它方法的话，这些控制功能可能需要在前面板上安装几十个按钮和旋钮才能完成。尽管具有这些强大的功能和灵活性，平时该设备还是可以简单操作。

实际上，用其它一些方法可能会使操作比较常规的的设计更简单。例如，如果你不使用 CP-500 一个或多个输出功能，你可以从操作菜单中将不必要的按钮删除。这样做能避免选择不存在的源组件，避免不存在的声音产生阻塞混淆。*（当然，如果你日后需要增加了新的源组件或要用到那个输入功能，你会很容易的将按钮重新装上。）*

用户可定义的声音控制

本机的声音是通过精密软件进行控制的。该软件能让你很好的调整到你喜欢的水平。

理论上，音量控制可以快速达到你想要的水平，一旦你选择到“最佳”音量，你就可以获得极佳的音量控制。当然，这些特征是互相牵制的：一个需要将旋钮旋转一定的程度以改变很大音量，另一个则是要旋转相同的旋钮来减小很小的音量。

基于特定的环境（如，你调节声音的速度有多快以及你所调节的声音是在哪个范围），CP-500 的声音控制系统通过不同的反应来解决上述问题。经过大量的实验，我们认为我们的工厂设定能让用户直观而愉快的使用本设备。然而，如果你想更进一步的将设备调节到你的特殊偏好水平，你也很容易就能操作。

高精度的电路设计

所有的 Classé 模拟放大过程都是基于我们多年的持续开发而最优化的电路设计。

我们的产品使用上佳的电路设计，经过多年的研究，我们发现，在不同的应用领域,许多小的改良能使产品使产品达到最佳的性能。改变这里的电压，或在那里使用略为不同的部件，可以产生纯粹性能和绝对最佳性能之间的分别。

和那些从一个流行概念跃到另一个流行概念的厂家不同，我们的这些改良仅来源于大量的经验。我们的改良充分考虑了 Classé 产品音色的连贯性（Classé 产品都是基于类似的模拟增益级的），以及产品的使用者和评论人员等对产品的好评。

广泛的听音设计

对于世界级的产品，人们都希望它具有精良的性能，Classé 就能给你带来这种性能。然而，实验证明，仅是技术层面上的优良是难以主观地保证产品的音乐品质的。

正是这方面的原因，在 Classé 产品的开发过程中，我们就努力对产品进行了大量仔细控的听音测试。我们的耳朵是最好的实验室测试设备中的一种，是更传统的工程测试设备很好的补充。在使电路最优化的过程中，根据我们的主观感觉，我们做出了成百上千个使用一个高品质的部件代替另一个的决定。

比如，我们能听出半打不同公司的，具有相同阻值的薄膜电阻器 0.1% 的公差。标准测试表明，在噪音，失真等方面，我们所听出的结果的是和测试结果完全一样的。但是，在大多数情况下，针对开发的产品，人们的主观反应是，一个选择产生一个小的改进。较少情况下，一个简单的改变会产生一个超意外的改进。

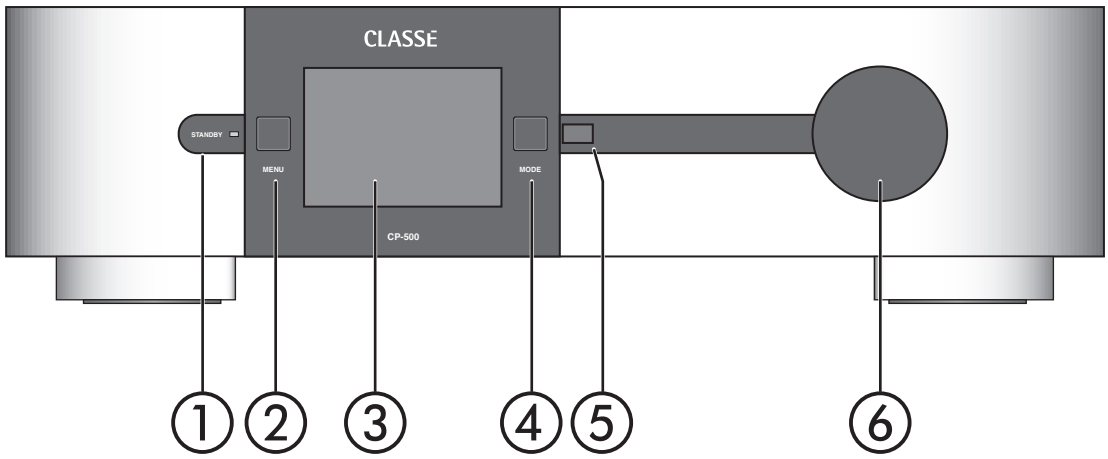
在产品最终投产之前，我们要做出几十甚至几百个增加各种各样的改进的决定。最后，你的产品就会有一个显著的改进。这些改进都是基于仔细的听音测试的，我们把这种测试看做是对实在的工程技术必要的补充，这也正是你想从 Classé 得到的东西。

超长的寿命

我们若干年的广泛的高精确的电路设计的另一个好处就是，我们深刻领会何种电路能很好的工作较长的时间。

仅使用最优质的部件，然后多次经过加速老化测试和实际长时间使用测试，我们就能设计和生产出一定能经受得住测试时间考验的产品。

我们确信，正如我们以前销售给其他消费者的产品一样，你的新前置放大器一定能在未来许多年内给你带去可靠的音乐享受。



前面板

1　待机按钮 (Standby) 和 LED 指示灯

前面板上的 **Standby** 按钮可以触发前置放大器的不同操作，在按钮的完全操作状态下，Standby 模式会让设备处于关闭状态，但是也会通过任何支持的控制选择（如 IR 输入，DC 触发器，CAN 总线或 RS-232）对系统的命令做出反应。

前置放大器的当前状态会通过待机按钮中间 **LED** 指示灯反映出来。当设备通电并开启时，LED 的显示状态如下：

- 亮 = *待机*
- 闪 *（通电时）* = *初始化*
- 熄灭 = *操作*
- *亮（暗淡）* = *显示暂停*
- 闪 *（通电后）* = *交流电源电压超出规定范围*

如果你打算长时间不使用你的前置放大器，如假期或其它旅游时，我们建议你将前置放大器和电源断开。在断开电源之前，请务必确保设备处于待机状态。

另外，从物理的角度来说，在雷暴天气，也应该将任何带电子的设备与交流电源断开，因为雷电会给交流电源带来巨大的电涌，从而会损坏任何设计和保护良好的电子设备。在强雷暴天气，对电子设备最好的保护就是简单地将其从电力网断开。

2 菜单按钮 (Menu)

按前面板上的 **Menu** 按钮会激活主菜单系统，从而代替常规操作菜单，操作状态将会在 LCD 触感屏幕上显示。

3 LCD 触感屏幕

许多你和 CP-500 的互动都是通过 **LCD** 触感屏幕完成的（CP-500 带有遥控）。LCD *触感屏幕*通常会显示你日常操作中使用的各种**输入选择**按钮，并进入磁带 Tape 按钮。

按 **Menu** 按钮，你也能激活 CP-500 的主菜单系统，你就能控制前置放大器操作了，包括*菜单系统*设置，各种显示选择（包括菜单系统自动显示的语言,），以及几个可以将 CP-500 与复杂系统进行高级连接的传统安装性能。

更多信息，请参看说明书的“菜单系统”一节。

4 静音按钮 (Mute)

按一下前面板上的 **Mute** 按钮会将前置放大器的声音消除。再按一次就会恢复先前的设置。

然而，当设备处于静音状态时（**Mute** 按钮被按下时），如果你手动增加音量（使用**声音按钮**或**遥控**），静音就会失效，声音会被设置为零。这样做是为了安全起见，避免设备的声音在静音状态时被调高到非静音状态下不希望听到的水平。

5 IR 窗口

红外线 (IR) **接收器**和**发送器**被置于窗口的后面。通常情况下，你的 CP-500 要能从窗口“看见”遥控器以便能对遥控器的命令做出反应。

在前置放大器的正常操作过程中，如果它是被放置在封闭门的后面或由于其它原因窗口被档住而不能“看见”遥控器，你可以使用后面板的 **IR 输入**和**输出**接口以及 *IR 转发器系统*来解决这个问题。关于使用红外线转发器系统将信号传递给前置放大器的详细情况，请参考说明书的“后面板”一节，或联系你当地的 Classé 经销商。

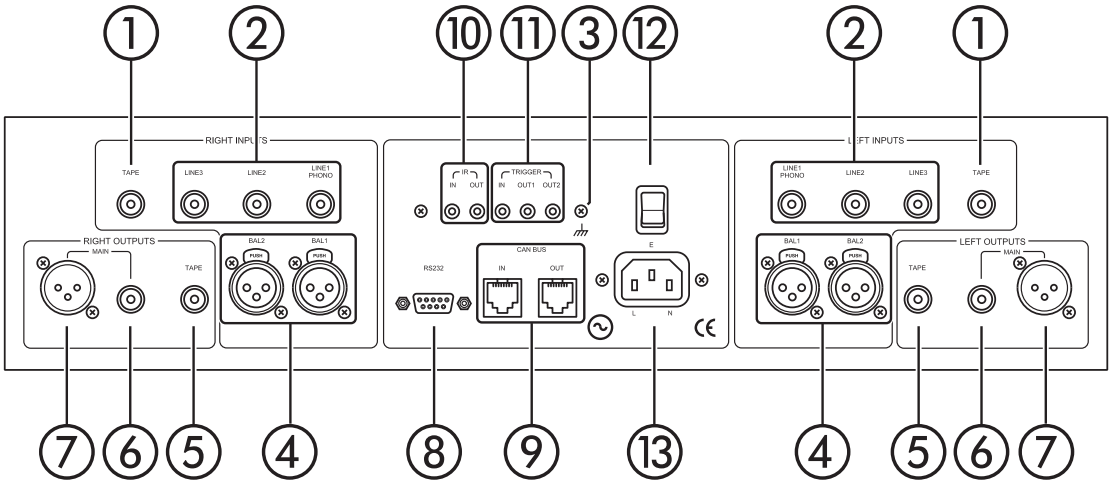
除了接收 IR 命令外，CP-500 还能传送 IR 命令，所以它能供第三方学习遥控功能。CP-500 包含一套不连续的的综合 IR 命令，从而使可靠的宏指令的创造更加方便。明确地说，所有命令都是不连续的编码，这些编码正常情况下作为切换功能进行操作（如，除了两钟状态之间切换的正常命令外，独立的“操作”和“待机”命令）。

6 声音按钮 (Volume)

CP-500 前面板右边大的**旋钮**是用来控制系统的声音的。

在听音乐的时候，在整个设备最可能使用的控制范围，声音的增减精确到 0.5dB 的增量。

在最低的声音范围，步长略为增加，以便在最低音和正常听音之间的调节移动得快一些。



后面板

1　磁带输入

要连接上任何录音设备（模拟磁带录音机，数字磁带录音机和 CD 唱机等）的模拟输出端，你得使用这些单端 **RCA** 连接器。通过接触 CP-500 主操作屏幕上的磁带 **tape** 按钮，你可以选听你的录音设备的输出。

2　单端 RCA 输出

这些 RCA 插口可接收线声源式设备如调谐器，CD 机和磁带机芯的左声道和右声道（单端）的输入。任何输入都可以通过触摸前面板触感屏幕的主操作屏上的相应的按钮来选择。

为了达到可能的最佳效果，我们建议你只使用高品质的铠装互连缆线。请向你当地的 Classé 经销商咨询你的系统使用的最佳的缆线。

可选的唱机前置放大器

如果你要在你的系统上使用转盘，你可以从你的 Classé 经销商处购买到可选的唱机前置放大器单件，一旦你将其安装到你的前置放大器内，**Line 1** 输入连接器就成为你的**唱机输入**，同时，菜单系统内的**唱机增益**控制被激活，这时你就能为动磁式 (MM) 和高输出动圈式 (MC) 盘式磁带选择低增益，为标准输出动圈式 (MC) 盘式磁带选择高增益。（详细情况请参看“菜单系统”一节。）

3　接地端

假如您有安装选购的唱头放大附件,您的前置放大器接地端最常用应是唱片转盘的接地，（如果您感兴趣，请联络 Classé 授权经销商有关更多关于这个选购附件的资料）。从您的唱片转盘的唱臂接地导线连接到这个螺丝终端通常可使交流杂音和噪电减到最小，否则转盘是易受到扦扰。如有需要您的 Classé 授权经销商也可以协助您处理这个问题。

4 平衡 (XLR) 输入

这些 **XLR** 插口可接收来自于有平衡输出的源设备的右声道和左声道平衡信号。这两种输入都可以通过触摸前面板 LCD 触感屏幕的主操作屏上的相应的按钮来选择。

XLR 的阴极输入连接器的引脚的分配如下:

引脚 1: 信号接地
引脚 2: 信号 + (正相
引脚 3: 信号 – (反相)
连接器接地线片: 底盘接地

参考平衡输出线电平源的操作手册检验它们的输出连接器是否符合 CP-500。如果不符合，则对缆线进行重新布线，以使正确的输出插脚连接到对应的输入引脚。

为了达到可能的最佳效果，我们建议你仅使用高品质的铠装互连缆线。请向你当地的 Classé 经销商咨询你的系统使用的最佳的缆线。

5 磁带输出

将这些 **RCA** 接口连接到你的录音机的右声道和左声道录音输入端。

这些单端 RCA 输出未受到前面板声音控制的影响，也不会受因为你选择监视声源或录音机 *(按前面板触感屏幕上的磁带 (Tape) 按钮分别取消选定或选定)* 而受到影响。然而，当前置放大器处于*待机* (*standby)* 状态时，录音输出将会被断开。

6 单端 (RCA) 主输出

使用 RCA 连接器的单端缆线是消费类电子产品模拟连接最常用的形式。当你谨慎执行并配合高质量的互连缆线使用，它可以为你提供最优良的性能。

Classé 已经尽了最大的努力让你的前置放大器的单端 (RCA) 输出尽可能的优良。然而，这个连接标准不可能免除平衡互连接的干扰。因此，我们推荐你尽可能使用平衡输出。

如果你没有使用平衡模拟互连接，那么使用高品质的 RCA 终端铠装式缆线将这些单端输出连接到你的前置放大器/处理器。你当地的 Classé 经销商会向你推荐最适合你的系统使用的缆线。

7 平衡 (XLR) 主输出

这些 XLR 输出为你的前置放大器提供高质量平衡立体模拟信号。使用高品质的铠装式平衡连接将这些输出连接到你的电源放大器对应的平衡输出。你当地的 Classé 经销商会向你推荐最适合你的系统使用的缆线。

起初，平衡声频互连接的开发是在专业声频世界进行的，用来保持极小的麦克风级别信号之间的细微差别。许多年来，许多以性能为导向的消费品公司，如 Classé，也开始使用平衡声频互连接来保持你收藏的类似产品的声频性能的微小差别。

从技术上来说，平衡声频互连接能为你带来两个明显的好处：它将从一部件到另一部件传递的信号强度加倍，从而将潜在的信噪比提高 6 dB； 同时，它也能很好的抑制由于 EMI（电磁干扰）和 RFI（无线电干扰）而造成的，部件之间可能接收到的噪音和干扰。在当今无线通讯的年代，我们的周围可能会比一前有更多潜在的干扰存在，因此，我们我们应将这些干扰从排除在我们的音乐和电影声带中之外。

也正是出于这方面的原因，我们强力推荐你在你的 Classé 部件之间尽可能使用平衡声频互连接，特别是当你打算在你的前置放大器和电源放大器之间使用长的互连缆线以减少扬声器电线长度时，你更应该使用这种连接。

XLR 的阴极输出连接器的引脚的分配如下：

引脚 1：信号接地
引脚 2：信号 +（正相）
引脚 3：信号 –（反相）
连接器接地线片：底盘接地

这些引脚的分配和音频工程协会采用的标准一致。

如果你是将 Classé 前置放大器和 Classé 电源放大器一块使用，设置如下：取出标准平衡互连缆线并将其插入插孔即可。

如果你使用的是其它品牌的电源放大器，请参考你的电源放大器的操作手册以确保其输入连接和 CP-500 的对应。如果不对应，让你的经销商给放大器进行布线以便正确的输出插脚对能插入对应的输入引脚。

8 RS-232 控制端口

DB-9 连接器有两个用途:

- 下载新的操作软件到你的前置放大器（例如，也许是曾经新添加的功能）。
- 通过控制系统如 i-Command™，AMX® 以及 Crestron™，对你的前置放大器进行内控。

如果需要更多有关家居自动化系统，请联络您的经销商。

9 Classé CAN 总线控制端口

使用将来 Classé Audio 控制局域网的提供工具，**RJ-45** 连接器是预备来控制和通讯用的。

10 IR 输入和输出

你的 Classé 前置放大器带有两个 1/8 英寸的**输入接口**以便能支持当今普遍采用的红外线 (IR) 遥控。例如，除了操作或待机状态的不连续的命令编码外，红外线命令还可以退出切换前置放大器操作或待机状态。这些编码可用于精细遥控系统的“宏”，这样就便于前置放大器的控制能在一个更大范围的完整系统进行。

可使用的命令非常广泛，甚至能让复杂的宏（一串命令排列在一起）进行无故障操作。如果你对这种性能感兴趣的话，我们强力推荐你和授权的经销商进行沟通。

注意，*IR 输入*和*输出*在这里有点用词不准确：这些插头的输入和输出是电气特征，而不是红外线特征。这些插头是配合标准 IR 接收器，分配放大器和发射器（可从经销商处购买）使用，将遥控 IR 信号转换为电信号，反之亦然。这种方法最大的好处是能容易地将信号传送到需要的地方，还有能提供可靠的固定电连接。

由于 IR 分配系统（通常情况下，你的经销商可以给你设计）必须能控制许多产品，你的前置放大器有 **IR 输入**（用于产品的控制）和 **IR 输出**（用于将相同的信号传递到另一产品）。这样能让将你的控制缆线从一产品“菊链”到另一产品。

使用微型插头末端（相对插头的底部，将末端定义为阳极）你的前置放大器可以对 3-12VDC 的 IR 命令做出反应。

11 DC 触发输入和输出

为了能得到期望的状态，许多音频/视频部件都能为关联的设备提供直流控制电压。你的 Classé 前置放大器能充分利用这些性能，以便能在自动切换前置放大器的*操作*和*待机状态*，通常是和 A/V 前置放大器保持一致。

1/8 英寸的输入接口触发输入 **Trigger In** 为前置放大器提供了遥控开机功能（即切换*操作*和*待机状态*）。

两个 1/8 英寸的输入接口提供独立的可控制直流触发输出，这些输出可用于“菜单系统”一节描述的众多用途中的任何用途。例如，你的经销商可编制**触发输出1 Trigger Out1** 程序，切换和 CP-500 连接的 Classé 电源放大器的操作和待机状态。

使用以下末端极性，遥控触发输入可对 3-12VDC 的电压作出反应:

同样地，该触发输入会产生一个能支持 100mA 电流的 12VDC 信号。

12 交流电源总开关

CP-500 的总**电源开关**位于前面板中部，连接电源线的插头的上方。

打开时，前置放大器处于*待机模式*。在关闭只前，应将前置放大器调至*待机模式*。

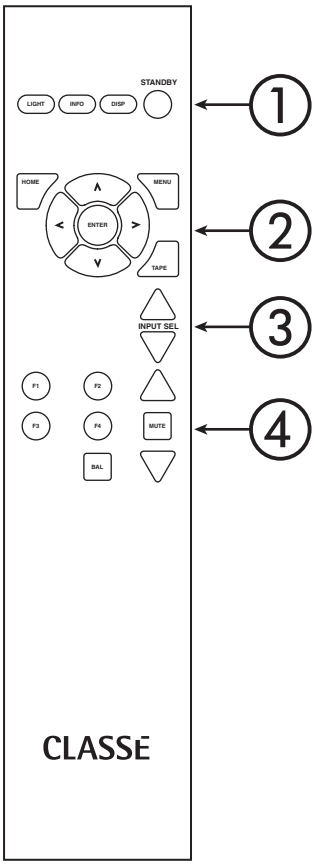
危险!

即使你的前置放大器已经从交流电源断开，但它还是存在潜在的危险电压和电流。不要试图打开前置放大器外壳的任何部分。你的前置放大器无用户可自行维修的部件。产品所有的维修都应咨询合格的授权 Classé 经销商或分销商。

13 AC 电源输出

CP-500 使用 IEC 标准的电源线（提供）。将该电源线插入提供的 **IEC 插头**，并将另一端插入合适的壁装电源插座。

遥控



你新购的前置放大器配有一个多功能**遥控器**，用来控制 CP-500 和基于 Classé 系统的测试个功能。 所有按钮都是按其功能进行照逻辑分组。

1 基本功能

设备上方的这四个遥控功能成一个组，能控制你和 CP-500 基本的互动沟通。

- **Light** 打开遥控器的背光灯，以便在弱光环境下能更好的看见功能键进行操作。一会过后，背光灯就会自动关闭。
- **Info** 直接带你到 LCD 菜单系统的状态屏幕，屏幕会显示几条 CP-500 的信息和当前的操作状态。
- **Disp**（显示）会让屏幕显示器的三个亮度设置循环。
- **Standby** 会将 CP-500 的待机和操作模式进行切换。

2 导航键

遥控器的中部是导航键。按钮的排列和你看见过的 DVD 遥控器的差不多。这些按钮用来进行 CP-500 菜单系统的导航。

- **Home** 将你带回 CP-500 前面板上 LCD 屏幕正常显示的输入选择控制。这样，不管你处于哪一级菜单，都能很快的返回正常操作状态。
- **Menu** 具有两个功能：当你想要调整某项功能时，它能激活菜单系统；当进入菜单系统时，按 **Menu** 就能返回上一级菜单系统。如果是在第一级菜单系统，按 **Menu** 就会返回正常显示状态。
- **Up/Down/Left/Right** 键能让你在特定的菜单屏幕移动，从你舒适的听音位置，上/下/左/右改变加亮的一项到你喜欢的位置。
- **Enter** 键能让你选择加亮的一项，和你按 LCD 触感屏幕的按钮具有同样的效果。
- 从本质上来说，**Tape** 键不是导航键。但它容易让你在选择听的声源和录音设备输出之间切换。如果你有能播放的录音设备（如三头磁带机芯），当你播放时，你可以比较原始信号和录音的差别。

3 输入选择

Up 和 **Down** 箭头键能在 CP-500 的输入之间进行循环。

如果设备内有你不使用的输入的话，我们建议你将其撤消，以便你能更快，更容易地进入你要使用的输入。（详情请参考“菜单系统”一节。）

4 系统控制

CP-500 遥控功能也能控制用户定义的功能，以及 Classé 系统的**音量**和**静音**功能。

- **F1/F2/F3/F4** 键能控制 CP-500 遥控器上其它按钮没有包括的功能。当按特定的 **F 键**，设备收到红外线信号时，你可以选择 CP-500 应该做什么。这些可能的功能非常广泛，可以菜单系统中找到。（详情请参考“菜单系统一节。）

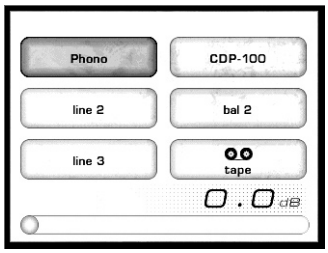
注： **所有 Classé 遥控器上的 F 键都发出相同的红外光命令。因为所有 Classé 遥控器的 F 键都具有相同的功能，这就省得你去确认是否选对了正确的遥控器这一环节。**

- **Volume Up（音量 +）**，**Volume Down（音量 –）**和 **Mute（静音）**键会根据你的指示去执行相应功能。
- **Bal**（平衡）键将直接带你到菜单系统的平衡屏幕；一旦进入平衡屏幕，根据你希望移动平衡的方式，你可以使用遥控器上的导航键选择 LCD 触感屏幕上的左或右按钮。通过按显示器上适当的按钮，你可以使用遥控器上的 **Enter** 键调整系统的相对左右平衡。

菜单系统

你的 CP-500 配有一支持信息显示和灵活菜单系统的多功能 **LCD 触感屏幕**。它能使用非常直观而且也非常广泛。本节说明书概述了菜单系统的众多功能。

操作菜单



操作菜单能让你容易进入前置放大器最基本的功能：**输入选择**和**磁带监控**。同时，它还能提供当前**音量**设置的数字和图形描述。

输入选择

按触感屏幕上的任何输入按钮能切换到适当的输入。你也许有三个线输入（即使用 RCA 连接器的单端连接）和两个平衡输入（即使用 XLR 连接器的平衡连接）。如果你的系统没有这么多的声音源，你可以选择撤消不使用的输入。这样做可以将关联的按钮从触感屏幕上移出，减少系统用户偶然的混淆。

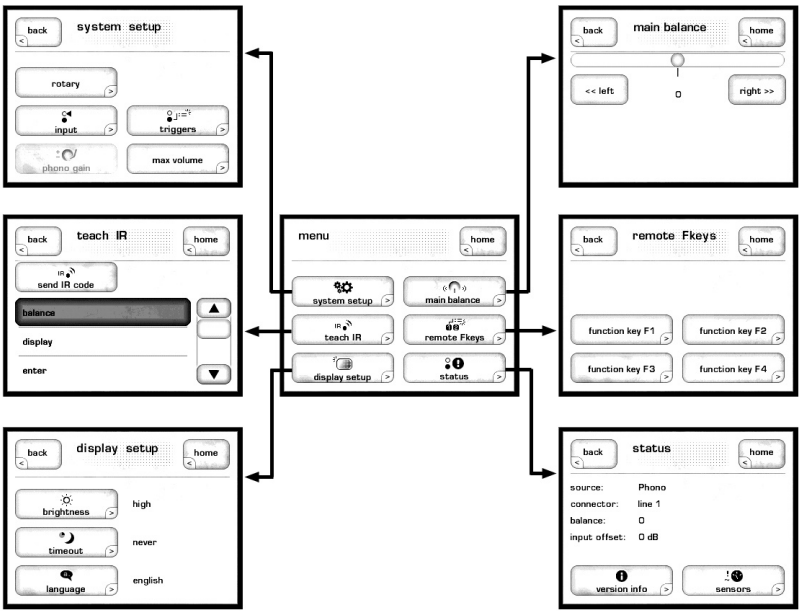
循环磁带

此外，CP-500 还有专用的可录音和播放的**循环磁带**配合声音源使用，能给带来总共六个可连接到 CP-500 的声音源（四个单端的和两个平衡的）。

当你触摸 **tape** 按钮，按钮加亮时，你会注意到先前选择的输入加亮。无论在何时，只要你选听任何输入，该输入也会被选择进行可能的录音；其信号将会被拷贝并送到到连接在磁带输出的录音设备。你可以选择录音或不录音。

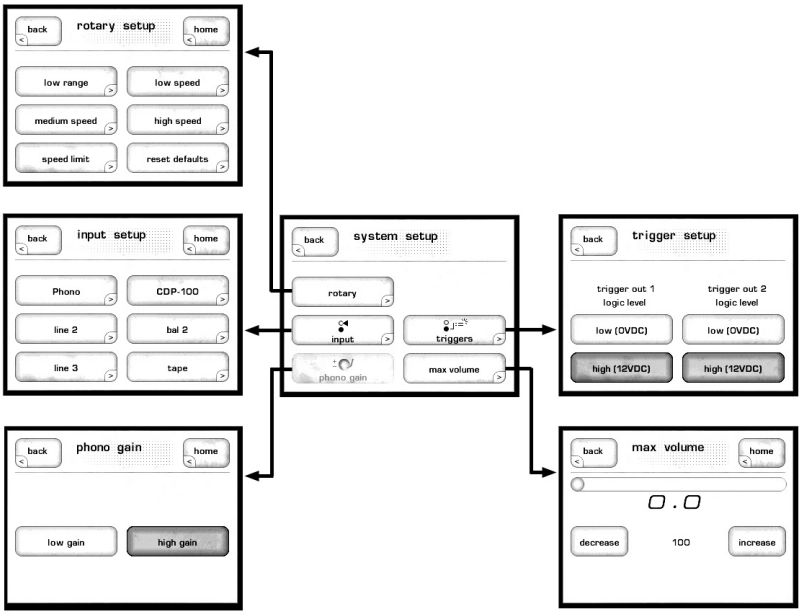
当你选择 **tape** 按钮时，你是要求 CP-500 继续录音传送（不管是否被用到），同时切换到监控磁带机芯（CD 机或连接到循环磁带的其它录音设备）的输出。这样你就可以在录音时实时监控录音结果。*(这种情况是假设你的录音设备能象三头磁带机芯那样可以支持录音功能。)*

主菜单系统



按下前面板左端的 **Menu** 按钮，**LCD 触感屏幕**会出现一个综合主菜单系统。主菜单系统的前两级菜单如上图所示。本菜单系统提供许多明确的安装特征，能让你在特定的系统下定制 CP-500 的工作内容。

系统设置



控制菜单的第一颗按钮将会带你到一系列子菜单，这些子菜单一起可以为你的系统设置提供许多控制。你可以:

- 定制你的音量控制
- 使你的输入适合特定的源部件
- 调节任选唱机模块的增益
- 编制 CP-500 直流触发器的运行程序
- 为你的系统设置最大音量

旋钮

前面板上的旋钮不会直接控制音量，而是通过控制电路来控制音量。这样就能比传统的音量电位计提供更强的保真度和精确性能。

由于音量控制电路是由软件控制的，所以在不同的环境下它都可能定制音量状态。为了更好的理解这种控制的价值，设想下列两个情景:

> *甲将设备音量控制调节至一个高精确度的值，以达到精确的，能听到最逼真音乐的音量设置。从他对整个系统的享受方面来说，通过改变几分之一分贝的音量就能够改变音量设置是很重要的。*
>
> *乙只想很容易就能从低的音量跳到合理的音量，只关心通过很快旋转旋钮就能得到他想要的音量，而较少考虑音量精确点。*

从以上两个场景你可以发现下列问题：甲想要得到一个极好的音量控制级别，这就需要从极低的音量水平到正常的听音水平进行若干次的旋转；乙想要从一个音量级别很快旋转旋钮就能得到他所需的音量水平，为了在如此小的空间覆盖这么大的范围，乙的这种做法只能获得粗糙的音量级别。如果甲乙两人同住一间房，会是什么样的情况呢？如果还有丙，根据他们各自的情绪，而丙需要前面两种，又会怎么样呢？*(实际上，大多数人都属于丙。)*

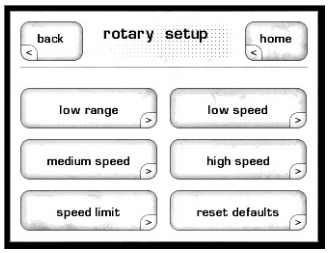
基于几方面的考虑，Classé 通过改变音量控制的反应来解决上述难题。

由于很少使用极低音量（几乎不能听见）进行听音，当音量设置值很低时，音量控制的低范围调节就会对旋钮输入值作出更快的反应。当此功能被激活时，你就能较快地（比其它音量调节范围更快）将极低的音量调节到中等音量。音量调节的效果是很细微的，如果使用的扬声器具有极高的灵敏度的话，这种效果可能会不合你的意。(因为这会导致该音量范围的最低部分比其它范围得到使用。)

音量控制可感觉的响应度中，最有意义的是旋钮的旋转*速度*。如果我们想要增加较大的音量或是减小到希望的音量时，我们会很自然地将音量控制旋钮旋转得更快一些。因此，如果 CP-500 的旋钮移动得相对较快的话，它会使用较粗糙的调幅有效地将电路的反应加快。随着旋钮旋转较慢，CP-500 将会实际增加调幅的转化度，这样就会降低声音控制的反应并在选择正确的音量设置过程中产生更高的精确度。

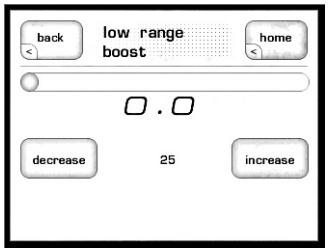
当然，也有可能会偶然撞击到旋钮，这可能会导致旋钮的旋转加快。在这种情况下， CP-500 实际上会再次降低每一种控制的速度作为安全措施，而不是无控制地增加音量，以免偶然烧断扬声器。实际上，如果你愿意，你可以设置“速度限制”，超过该速度，旋钮就会失去作用。

这些功能的*工厂默认*设置用起来通常是很直观而有趣的。然而，如果你想改变这些值，你可以在以下旋转菜单里进行改变。



所有的**旋转设置**都是互动的。你可以先设定值，然后调节音量是否这种效果是你喜欢的。

- **低范围 (low range)**：确定音量控制的反应度范围。为了能较快通过极低的音量范围，音量控制的反应度会在低的音量设置下快速提高。0 设置无声音效果，设置 100 为最大。

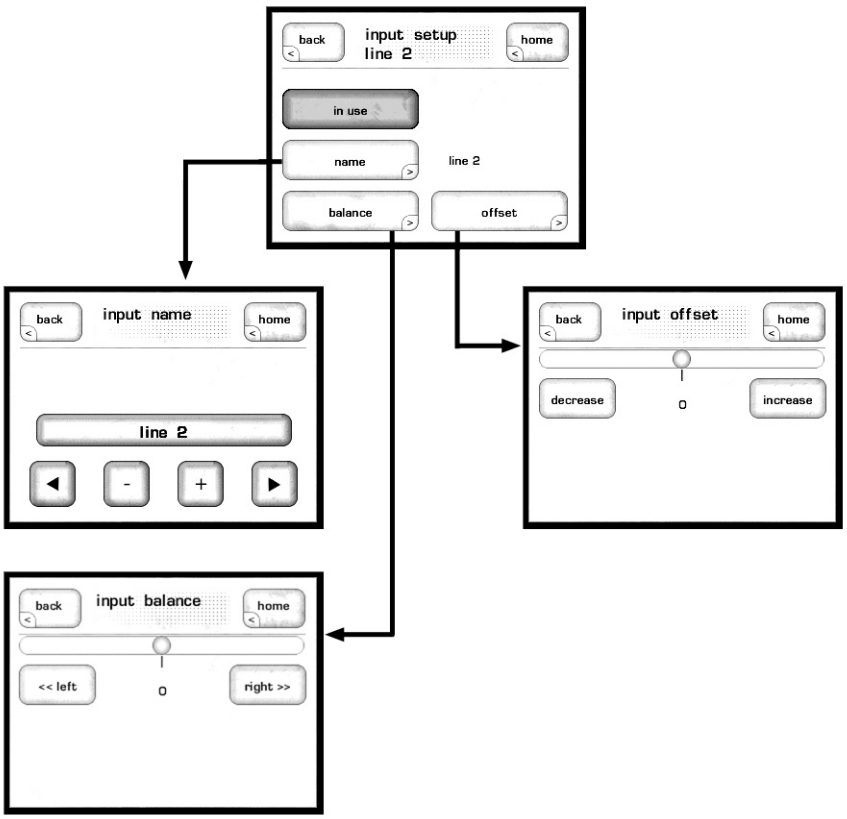


- **低速 (low speed)**：当旋钮以低速旋转时，确定音量控制的反应度。在低旋钮速度下，0 设置会使音量变化尽可能慢；而设置 100 则会在允许范围内使音量变化尽可能快。*（除了标示为“低速”调节外，此菜单和上一个是一样的。）*
- **中速 (medium speed)**：当旋钮以中速旋转得时，确定音量控制的反应度。在中旋钮速度下，0 设置会使音量变化尽可能慢；而设置 100 则会在允许范围内使音量变化尽可能快。*（除了标示为“中速”调节外，此菜单和上一个是一样的。）*
- **高速 (high speed)**：当旋钮以高速旋转得时，确定音量控制的反应度。在高旋钮速度下，0 设置会使音量变化尽可能慢；而设置 100 则会在允许范围内使音量变化尽可能快。*（除了标示为“高速”调节外，此菜单和上一个是一样的。）*

- **速度限制 (speed limit)**：设定最大旋转速度。超过此速度，无论怎样操作，音量都不会改变；在第一次停止前，旋钮的输入是完全无效的。第一次停止前，旋钮才以较低的速度旋转。
- **原设值复位 (reset defaults)**：在尝试了若干设置值之后，如果你确定你还是喜欢工厂设置的原设值，按下此按钮就能让原设值复位。所以，你可以尽情去调试，你总是能返回原始设置的。

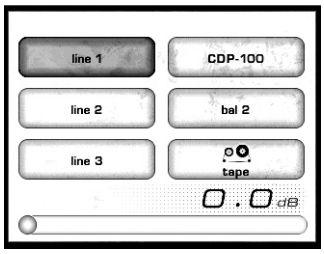
输入

你的前置放大器的每一个输入都能用几种不同的方式进行自定义，以增强系统的性能或使用的方便程度。以下是输入菜单和子菜单的概况：



- **使用中 (in use)**：确定选择的输入是否显示在输入选择屏幕的主菜单上，或是否包含在通过遥控器输入选择按钮循环的输入旋转中。
- **名称 (name)**：提供了如何自定义主输入屏幕上显示的输入名称的方法。例如，你想将可能连接到该输入的 Classé CD 机命名为 **Bal 1** 输入“CDP-100”。如果你想要这样做的话，你可以使用**“输入名称”(input name)** 菜单底部的四个按钮来改变任何输入的原设名称设置，改为适合你系统的更确切的名称。

- ◀按钮：作用象电脑上的退格键，将光标移到最左边并清除沿途所有字符。
- ▶按钮：将光标移到最右边并沿途添加字符。（使用 **+**，**– 按钮**改变你想要修改的字符。）
- **+**，**–** 按钮：通过可使用的字符改变当前的字符。这些字符包括所有大小写字母，数字 0 到 9 以及各种标点符号。完成之后，主显示屏可能会象以下一样显示（注：字符的改变应是 **bal 1** 输入，和其它改变不一样。）



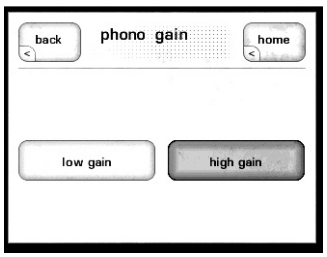
警告!

当一个输入被改名为“SSP”时，它就会成为一个单位增益输入。当选择到这个输入时，CP-500 的声音控制就会无效，所有的输出都会在线路电平被驱动，音量表示也会从主菜单被移出。

在 CP-500 正被用来通过来自于具有自身音量控制的部件（如 Classé SSP-300 环绕音处理器）的信号，或当 CP-500 的一个输出被传送到具有自身音量控制的部件（如 SSP-300）时，上述改名的方法是有用的。由于产生的音量水准可能会大声得让人不舒服，所以在选择 SSP 输入之前，应注意其它部件的音量控制调节。

- **平衡 (balance)**：调节输入指定平衡调整以对可能会会特殊略为不平衡的音源进行补偿。这尤其象和电唱盘是共通的，因为即令是最好的盘式磁带机也会有小频道不平衡的问题。
- **输入偏移 (input offset)**：提供音源部件之间输出差额补偿的方法。这样做可以消除在不同音源部件之切换时出现的恼人的和突然的音量变化。

唱机增益



唱机增益只有在安装有**唱机模件**时才会被激活。否则，它是呈灰色的。当安装有唱机模件时，CP-500 会自动识别，并将 **Line 1** 输入更名到 **Phono**，以及激活主菜单上的输入。

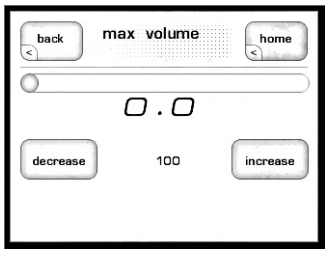
设置唱机增益是非常简单的：为大多数动磁式和高输出动圈式盘式磁带选择*低增益*；为低输出动圈式盘式磁带选择*高增益*。你的 Classé 经销商帮助你确定你拥有哪一种磁带，以及确定哪一种设置是最合适的。

触发器

CP-500 的每一个**触发输出**都可以被编程为其“逻辑水平”，即是，当被激活时，不管其电压是*低*（基本为 0V）还是*高*（约 12V），触发输出都可以被编程。能改变触发器“打开 (on)”状态的的逻辑水平，就可以解决指定安装的问题。这些问题的解决如果采用其它外部设备来解决则需要增加费用和系统的复杂性。

如果这一点对你来说较晦涩的话，那也没问题。这只是设计来解决你从未碰到过的问题的功能。你的专业安装人员能很容易就能解决发生的问题的。

最大音量

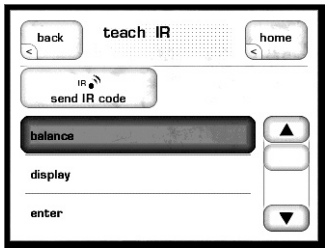


最大音量屏幕能让你为你的系统设置最大音量。设置范围为 0-100，当显示 100 时表明你不想在你的前置放大器能提供的最大增益上设置任何人工限制。

此设置是互动的。你可以将最大音量设置在 100 以下的某个值，然后调节音量来接茬是否合适。

中文

红外线遥控输出

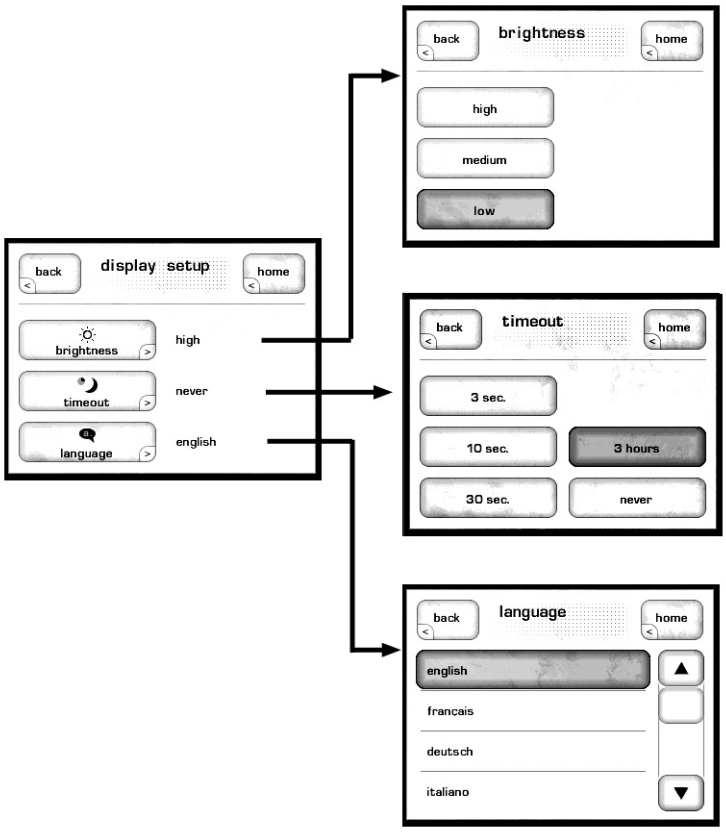


CP-500 为其所有功能提供了不连续的红外线 (IR) 命令编码，这些编码远远的超过了普通遥控功能所需的编码个数。然而，如果你打算使用接收整个系统命令的宏来创建一个自定义遥控功能，CP-500 的许多功能是重要的。没有这些不连续的编码，你想创建的许多宏都不能简单而可靠地操作。

在 CP-500 的 **teach IR** 屏幕上，有一排滚动的可使用的红外线 (IR) 编码。要滚动到命令，你需要进入可操作宏的遥控功能，然后按下“**发送 IR 编码 (send IR code)**”按钮，CP-500 将会从前面板将合适的命令编码发出－在这里第三方可能会遥控接收到该命令编码。

关于控制系统的详情，我们建议你和你的授权经销商进行沟通。

显示器设置



该按钮带你进入**显示器设置 (display setup)** 菜单。你可以对 CP-500 触感屏幕和菜单系统中使用的 LCD 屏幕的*亮度*，*暂停*，*语言*进行配置。

亮度

CP-500 的**亮度**设置有三个可能的值“低，中，高”。在使用本系统时，你可以根据环境的的光线，特别是你的听音房间亮度水平来选择和适当的设置。在明亮的房间里，高的亮度设置通常具有最佳的效果。在更柔和的光线环境下，你会发现较低的亮度设置在视觉上不是很直观。

暂停

如果你喜欢在朦胧或暗的房间听音乐的话，你会发现即令是低的亮度设置也会有一些让你分散注意力。如果这样的话，你就可以改变背光的**暂停 (timeout)**，以便在你选择不激活状态一段时间后，低的亮度设置会完全被关闭。

在这里，激活状态指用户界面的任何一种使用。包括应按钮，LCD 触感屏幕和遥控器。

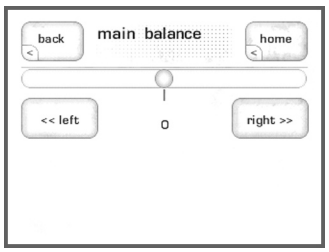
例如，如果你将暂停设置到最小值，只要你使用 CP-500 的任何控制功能，显示器的背光灯就会亮起并持续三秒钟－刚好够你检查一些功能。如果你继续使用任何控制功能（每三秒钟至少一次），显示器将会一直亮。如果三秒钟之后不使用任何功能，背光灯将会自动熄灭。

当 CP-500 不在待机模式时，如果你喜欢将显示器设置为开启状态，你可以选择用不暂停设置。LCD 显示器的灯的设计本来在极差的汽车环境中使用的，它能可靠地操作许多年。虽然你想将显示器设置为持续开启状态，但我们还是建议你将暂停值设置为低于一分钟（注：将亮度设置为低不会增加灯的寿命。）

语言

语言 (language) 菜单提供了 CP-500 GUI 支持的任何不同的语言。Classé 已经为我们的国际分销商提供了一套软件工具，分销商能使用这一套软件来自定义适合当地习惯和术语的翻译，以便保证 CP-500 的操作能象在加拿大一样直观。

平衡

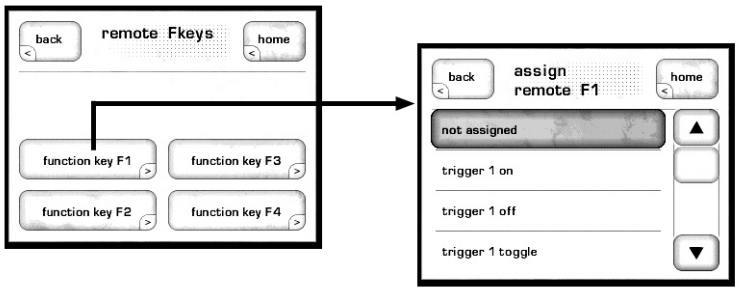


平衡控制能给出 CP-500 平衡设置的数字和图形表示。

左右声道间的一些录制不是特别平衡。例如，如果某个特别的录制的图形看起来左边重，你就可以使用平衡控制来恢复更直观的图形。切换图形到右边，一次或多次触摸右 **right>>** 按钮来改变不平衡。

中文

遥控 F 键



CP-500 的遥控功能有四个**功能键（F 键）**，能让你快速而容易地进入特定的系统功能，这些系统功能可能会被埋在某个菜单里。

例如，如果你经常使用平衡控制功能，你可以考虑使用一个 **F 键**来编程，直接将你带到那个屏幕。这样做能省去进入控制菜单这一环节，紧接着按**平衡键**就行 *（平衡键很难被看见。）*

遥控 F 键菜单有四个按钮，分别为遥控器上的四个**功能键**。按下 LCD 触感屏幕上的任何一个**功能键**，你将会进入该键对应功能的滚动的次级功能。

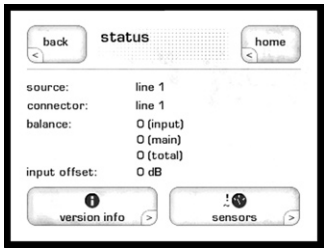
你可以简单地从滚动的功能中选择你想要的那一条（触摸屏幕右边的上下箭头键），然后选择需要**功能键**执行的这一个特定的功能。

F 键使用的注意事项

注：所有 Classé 遥控设备都具有这四个 **F 键**，因此，你不必担心你选择了哪一个遥控功能。前置放大器上的 **F1** 和 CD 机上的 **F1** 发出的红外线信号是一样的。

这样做是为了将不同遥控功能的混淆减少到最小（因为它们会执行相同的功能），所以，在为不同的部件指定不同的功能时，你应注意这个问题。否则会导致两个不同部件同时执行不同的功能，以对遥控器上一次简单的按钮的动作作出反应。这样做有时是很有用的。例如， **F1** 可将前置放大器设置到 **CD** 输入，也可以将 CD 设置到**播放**，两个功能只需简单按 **F 键**就可以。

状态



在**状态**屏幕上，CP-500 当前的几条操作信息可以显示，同时也可以进入 CP-500 使用的软件和内部感应器的信息。

版本信息

状态屏幕上的**版本信息**按钮会带你进入**版本信息**屏幕，屏幕上会显示 CP-500 使用的各种软件信息。如果你曾经向我们的技术支持人员询问过不包括在本说明书中的问题的话，他们可能会要知道你的设备软件版本的详细信息。这方面的信息会帮助他们为你提供最好的服务。

感应器

状态屏幕上的**感应器**按钮感会带你进入**感应器**屏幕，屏幕上会显示 CP-500 使用的几个内部感应器的信息。你不太可能会用到这些信息，除非 Classé 客户服务代表指导你这样做，以便帮助你进行一些意外故障的检修。

故障检修

通常情况下，对于任何维修问题，你都应该向 Classé 经销商求助。在求助经销商之前，检查一下你的问题是否在以下列出的范围。如果是，尝试用我们建议的方法解决。如果不行，请你联系你的 Classé 经销商。

1. 设备的每一项都是开启的，但没有声音。

- 调节音量控制到适度的水平（听得见但不过度）。
- 确保输入被选定的音源部件是开启的并不在*待机*模式。
- 确保被使用的音源的输入选择正确。
- 检查前置放大器是否处于*静音*模式。这一项通过操作菜单图标（中间有一横条）以扬声器的那种形式表示出来。按**静音 (Mute)** 键就可以取消。
- 确保电源放大器通电并不在*待机*模式。
- 检查磁带监控器是否启动。如果监控器启动而录音机是关闭的，你就不能听到你选择的音源。除非你希望监控录音过程，否则你可以按**磁带 (Tape)** 键取消监控器的启动。
- 如果问题仅在进行某项特定的输入时发生，检查音源和前置放大器之间互连缆线。
- 如果问题在进行所有输入时发生，检查电源放大器和前置放大器之间互连缆线。如果没发现问题，检查扬声器的电源线是否连接牢固。

重要!

在检查所有电源放大器和前置放大器之间，或电源放大器和扬声器之间的连接之前，先检查电源放大器是否处于关闭状态。

2. 没有声音，待机 LED 也不亮

- 确保前置放大器插入交流电源并开启，交流电源正常操作。设备将会通过不启动的方式来进行自身保护，自动防止不合适的交流电源电压输入。在将前置放大器插入交流电源和启动前，确保你的电源放大器关闭（如果电源放大器已经连接到前置放大器）。

- 如果你的前置放大器是正确插入交流电源的，尝试下面的方法：将前置放大器调到待机模式，关掉后面的主电源开关，将设备从交流电源拔出，至少三十秒后在重新接上电源。*（有时，短期的掉电会导致设备重启。）*

重要! **在设备重启之前，确保你的电源放大器是断电的。**

- 如果这些方法不能解决你的问题，请向 Classé 经销商求助。决不要试图去更换内部保险丝。设备内无用户可自行维修的部件。

3. 好象只有一个扬声器工作。

- 按**菜单**按钮，再按**平衡**按钮来检查 CP-500 的主平衡控制设置（或简单地按遥控器上的**平衡**按钮 **(Bal)**）。
- 问题是否针对所有的输入都发生吗？如果是，检查电源放大器和前置放大器之间互连缆线。如果没发现问题，检查扬声器的电源线是否连接牢固。

重要! **在检查所有电源放大器和前置放大器之间，或电源放大器和扬声器之间的连接之前，先检查电源放大器是否处于关闭状态。**

- 如果问题仅针对某个特定的输入发生，检查该输入的输入平衡控制设置:

  菜单 → 系统设置 → 输入 → *输入名称* **→ 平衡**

  其中*输入名称*是指有问题的那个输入。

- 如果输入平衡看起来是正确的，检查相应的音源部件和 CP-500 的互连缆线。

4. IR 遥控不能执行其功能

- 确保 IR 遥控和 IR 感应器（位于静音按钮的右侧）之间无障碍物。
- 如果电池电量弱，请更换新的电池。

5. 扬声器发出嗡嗡声。

- 如果你是使用单端互连接器，确保这些互连接器不靠近交流电源线。
- 如果你是使用单端互连接器，确保这些连接器不要太长。太长的单端互连接器，即令是被屏蔽了的，也会有增加噪音的自然倾向。
- 如果连接到前置放大器的任何音源部件连接有线电视，将有线电视线从音源断开。如果嗡嗡声消失，你就需要在你的有线电视线和这个音源之间安装一个独立的设备。你可以到 Classé 处购买到这些便宜的设备。
- 如果在你的前置放大器内有可选择的唱机模件，确保唱臂的接地线牢固连接到前置放大器后面的接线片。
- 如果嗡嗡声只在唱机输入上出现，确保转盘/唱臂组件不要太靠近其它部件。它们之间至少保持 12 英寸（30 厘米）的距离。如果能提供更大的距离，那就更好了（长到唱臂缆线伸长的距离。）
- 确保唱臂缆线不接触或沿交流电源线靠近。
- 确保你使用的唱机唱头具有适当的负载。如有疑问，请咨询授权的经销商。

6. 前置放大器有机械的嗡嗡声。

- 这种症状表明你的交流电源线内有许都电气噪音。将设备连接到其它交流电路（仅是不同的插头，而不是不同的电路）。
- 检查前置放大器电路中是否有卤素照明或调光器，因为卤素照明或调光器可以在电源变压器中产生嗡嗡声。

7. 即使音量没有被调节，两个不同输入间的音量有明显的变化。

- 你可能需要调节输入偏移设置来补偿不同音源部件间的输出差额。反之，输入偏移设置可能已经被不恰当地调节。不管使用哪一种方法，你都可以进入下列菜单位置解决你的问题:

  菜单 → 系统设置 → 输入 → *输入名称* **→ 偏移**

  其中*输入名称*是指需要调节的那个输入。

- 如果看起来不正确的输入不是唱机输入，确保你的唱机唱头具有正确的增益设置，如有疑问，请咨询授权的经销商。

维护和维修

清洁外壳

使用羽毛掸帚或不起毛软布弹去前置放大器机壳的灰尘。我们推荐使用异丙醇和软布来除去污物和手印。首先将软布在异丙醇中打湿，然后用湿布轻轻擦去前置放大器表面的地污物和手印。不要使用过多的异丙醇打湿软布，以免异丙醇滴入前置放大器内。

重要!

任何时候都不能直接使用液体清洁器来清洁前置放大器，因为直接使用液体会损坏设备内的电气元件。

清洁 LCD 触感屏幕

清洁 LCD 触感屏幕请使用微纤眼镜抹布，不脱纤维抹布，和塑料眼镜片或 LCD 电脑监视器/电视机专用的清洁液。

重要!

请将清洁液喷在抹布或纤维上 – 永不直接喷在触感屏幕上。

安装遥控电池

电池夹是位於遥控的底部。松脱底盖的两根锣丝，当心别落掉。把两块 AA 电池插入，确保极向跟遥控内指示一致。

规格

所有规格在说明书印刷时都是精确的。Classé 保留改进的权利，恕不另行通知。

■ **频率反应**	DC fi 200kHz ± 0.1dB
■ **失真度** *（THD + 噪音）*	0.003%
■ **最大输入电压** *（单端）*	5Vrms
■ **最大输入电压** *（平衡）*	10Vrms
■ **最大输出电压** *（单端）*	10Vrms
■ **最大输出电压** *（平衡）*	20Vrms
■ **增益范围**	-100dB 到 +14dB
■ **输入阻抗**	100kΩ
■ **输出阻抗** *（主输出）*	100Ω
■ **信噪比** *（相对 10Vrms 输入）*	100dB
■ **声道分离**	好于 100dB
■ **色度亮度干扰** *（任何两个输入间）*	好于 -120dB @ 1kHz
■ **额定功率损耗**	30W
■ **空转功率损耗**	29W
■ **交流电源电压**	由前置放大器使用 国家的电压要求决定；分经销商或 用户都不能重新设置。
■ **外型尺寸**	宽：17.5” (445 厘米)； 深：16.5” (419 厘米)； 高：4.75” (121 厘米)
■ **净重**	26 磅 (12 千克)
■ **装船重量**	33 磅 (15 千克)

更多信息，请咨询你的经销商，或联系我们:

Classé Audio
5070 François Cusson
Lachine, Quebec
Canada H8T 1B3
电话：+1 (514) 636-6384
传真：+1 (514) 636-1428

网址：http://www.classeaudio.com
email: cservice@classeaudio.com

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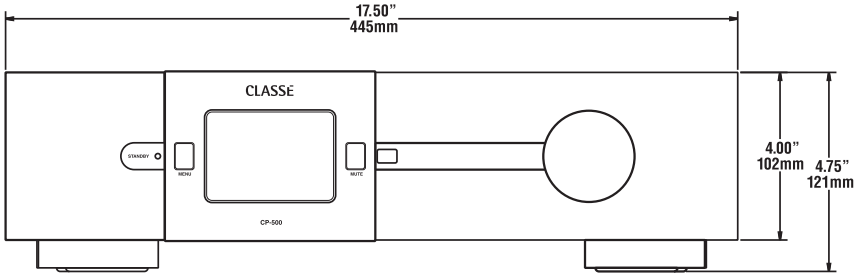
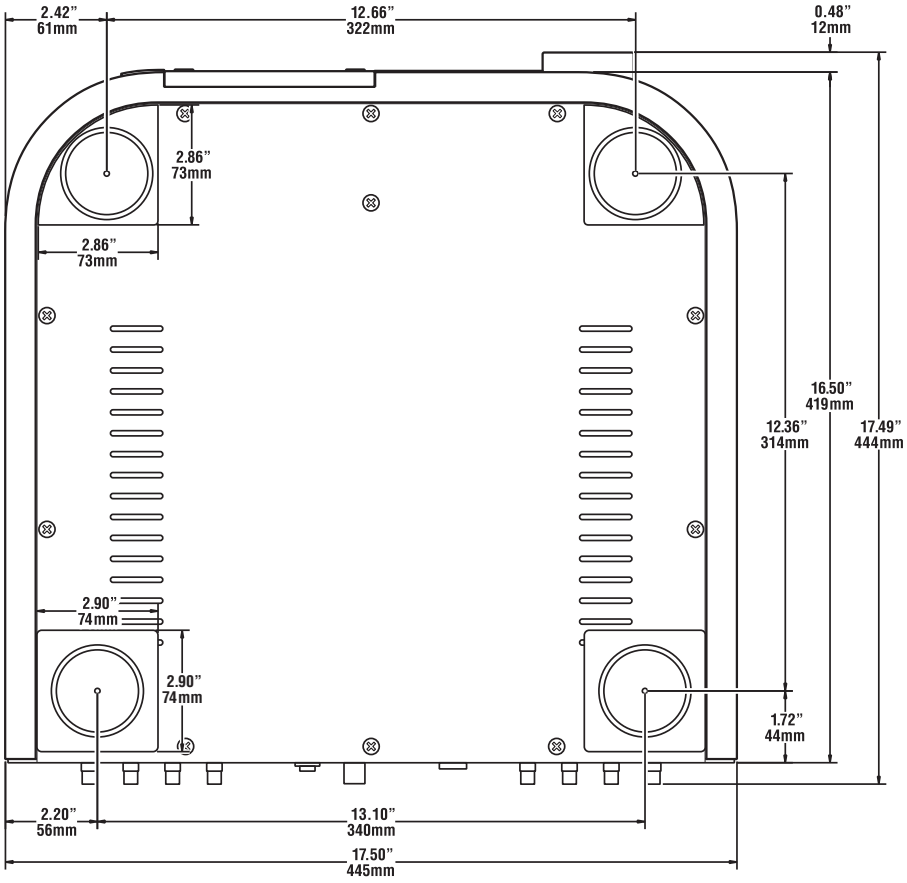
尺寸 （所有尺寸单位都是英寸）





CLASSÉ

Classé Audio
5070 François Cusson
Lachine, Quebec
Canada H8T 1B3

电话：+1 (514) 636-6384
传真：+1 (514) 636-1428 (fax)

网址：http://www.classeaudio.com

email: cservice@classeaudio.com

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